SET ALLIANCE

Panel

The Path to Efficiency-as-a-Service: A Guide to Creating Customer Value











FLORIAN ANDRÉ
Founder & CEO of P2S
Management Consulting



CEO of ETAP Lighting
International



DR. ELVIRA RAKOVA

CEO & founder Direktin



DAWIE KRIEL

General Manager at Energy

Partners Refrigeration

ETAP LIGHTING INTERNATIONAL NV

Who we are?







Founded in 1949 in Antwerp



Family owned lighting company



HQ, R&D and production in Malle, Antwerp



European quality



275 employees





Dr. Elvira Rakova elvira.rakova@direktin.com

ABOUT US

EXPERTISE

IN-HOUSE SOFTWARE Dr. Elvira Rakova is a lead ISO expert for pneumatic systems (France)
Guest lecturer at University Federico II (Naples, Italy)
12 years of experience
PhD in compressed air systems and pneumatics (TU Dresden, Germany)

EasyCas Direktin Software developed based on ISO standards, test results, and measurements including best practices for energy-efficient measures. Certified by ARTEMA (Industry association of France)

Full life cycle efficiency projects with monitoring.



PLATFORM





ENERGY PARTNERS REFRIGERATION

Cooling-as-a-Service:

Innovative, data-driven, responsible refrigeration

Energy Partners Group – since 2009

Cooling



Heating



Solar, Storage



Asset Management



Strategy & Solutions



180 MWR

total installed refrigeration capacity

190 T/hr

contracted steam capacity

150 MW

operational renewable energy project

R13.3 billion

bills under management R3.6 billion

saved for clients

EP invests in and operates energy assets for the benefit of our clients

\$70m (+R1,4Bn) invested since 2009

450 people7 offices





















We guide B2B hardware companies in their shift from selling products to selling recurring subscriptions.

Develop your own Subscription, Pay-per-Use or X-as-a-Service business model.



Florian André

P2S Management Consulting guides companies through a business model innovation process to help them develop and launch their recurring revenue business models.



Founded in 2019, boutique consultancy specialising in subscription and As-a-Service business model transformations.

Our Mission:

To guide manufacturers in their shift from selling products and software to selling recurring subscriptions. We leverage our expertise and partners in subscription and X-as-a-Service models to enhance our clients' competitiveness, sustainability, and revenue predictability.



Insights and best practices from 300+ successful subscription models.



Subscription Action Plan™: a step-by-step methodology tackling all key challenges faced during the business model innovation process.



Subscription Experts Ecosystem™: access to 20+ partner companies and tools. Financing, pricing, insurance, legal, IT-infrastructure, loT-infrastructure, ...



20+ clients in various industries, in Europe and North America.



P2S Management Consulting helps clients in various industries transform their products into recurring subscriptions. P2S works with clients in Europe and the Americas.

Lighting Equipment



Energy Efficiency Equipment



Heating, Ventilation, **Air Conditioning**



Industrial Automation & Energy Mgmt.



Drive Systems & Transportation



Power **Tools**



Inspection **Systems**



Measurement Equipment



Medical **Devices**

Clients prefers to stay anonymous

Process & Packaging Equipment

Clients prefers to stay anonymous

Injection Moulding Equipment

Clients prefers to stay anonymous

Audio-Visual Equipment

Clients prefers to stay anonymous

Clean Room Equipment

Clients prefers to stay anonymous

Blasting Equipment

Clients prefers to stay anonymous

Recycling Equipment

Clients prefers to stay anonymous





Webinar

Poll on EaaS value proposition

What keywords or phrases come to mind regarding opportunities or challenges when you think about X-as-a-Service (XaaS)?

Please share one or two that resonate most with what you're hoping to explore today.





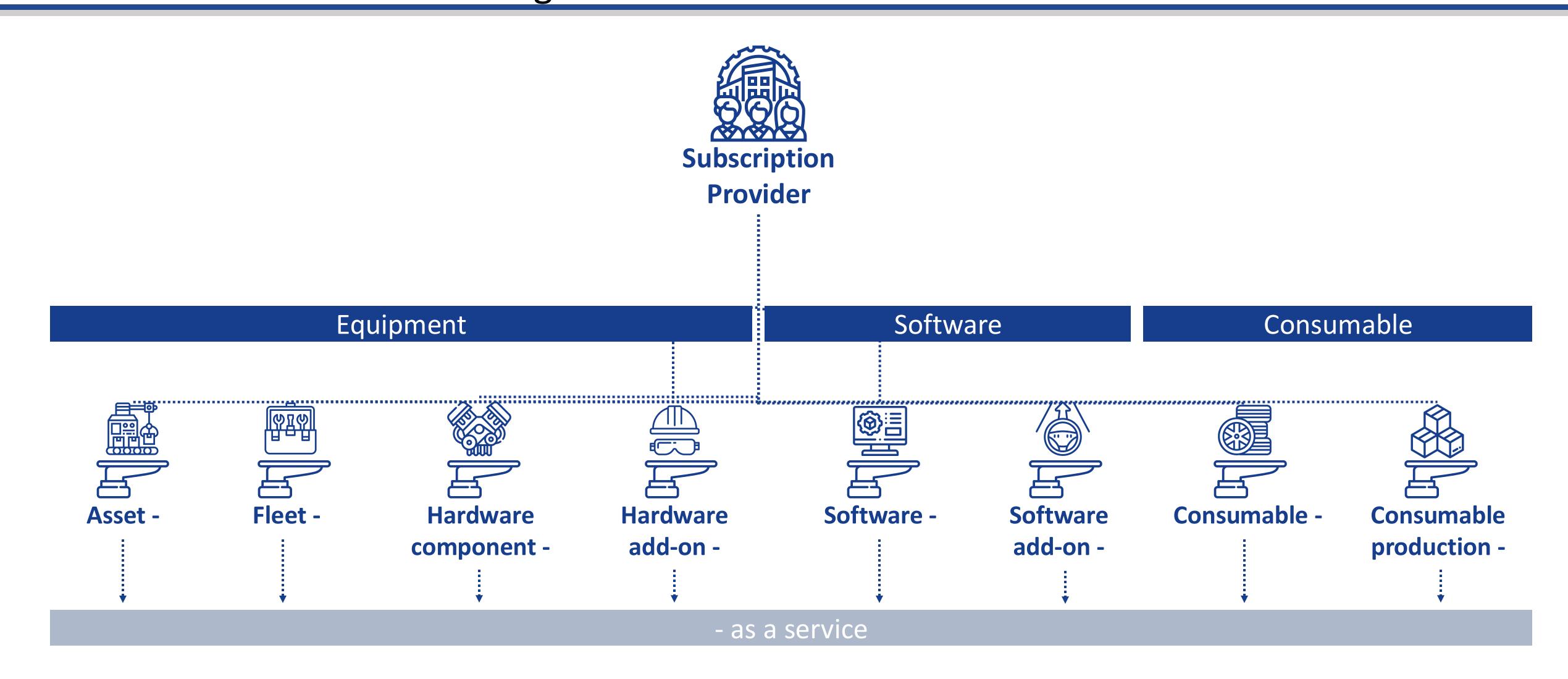


Developing EaaS propositions

Where in your business could you develop a subscription model?

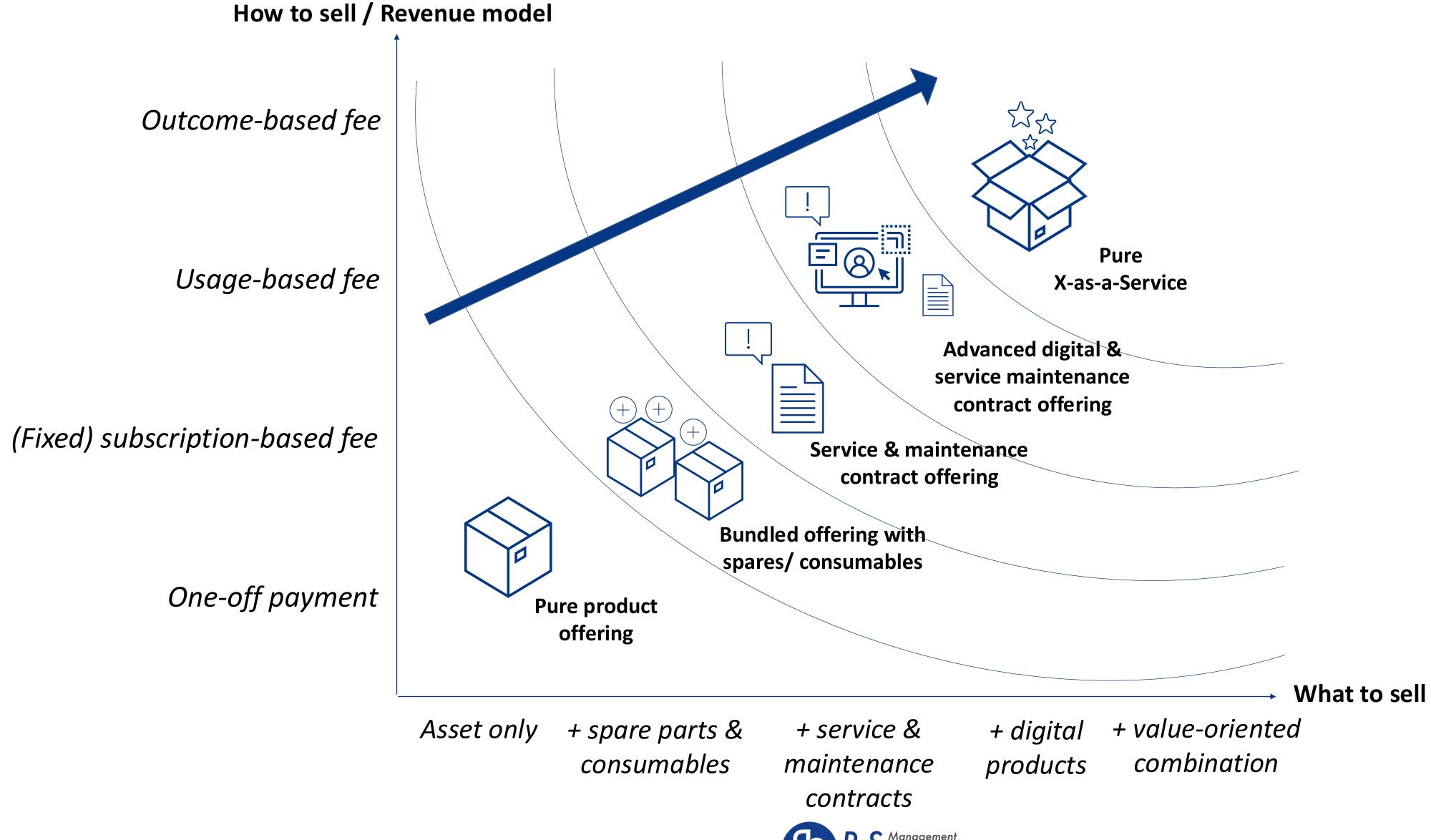


You can develop a subscription model for your equipment, software, consumables and services – or for all of them together.





Different revenue models exist, varying from subscription, via usage- to outcome-based pricing models.



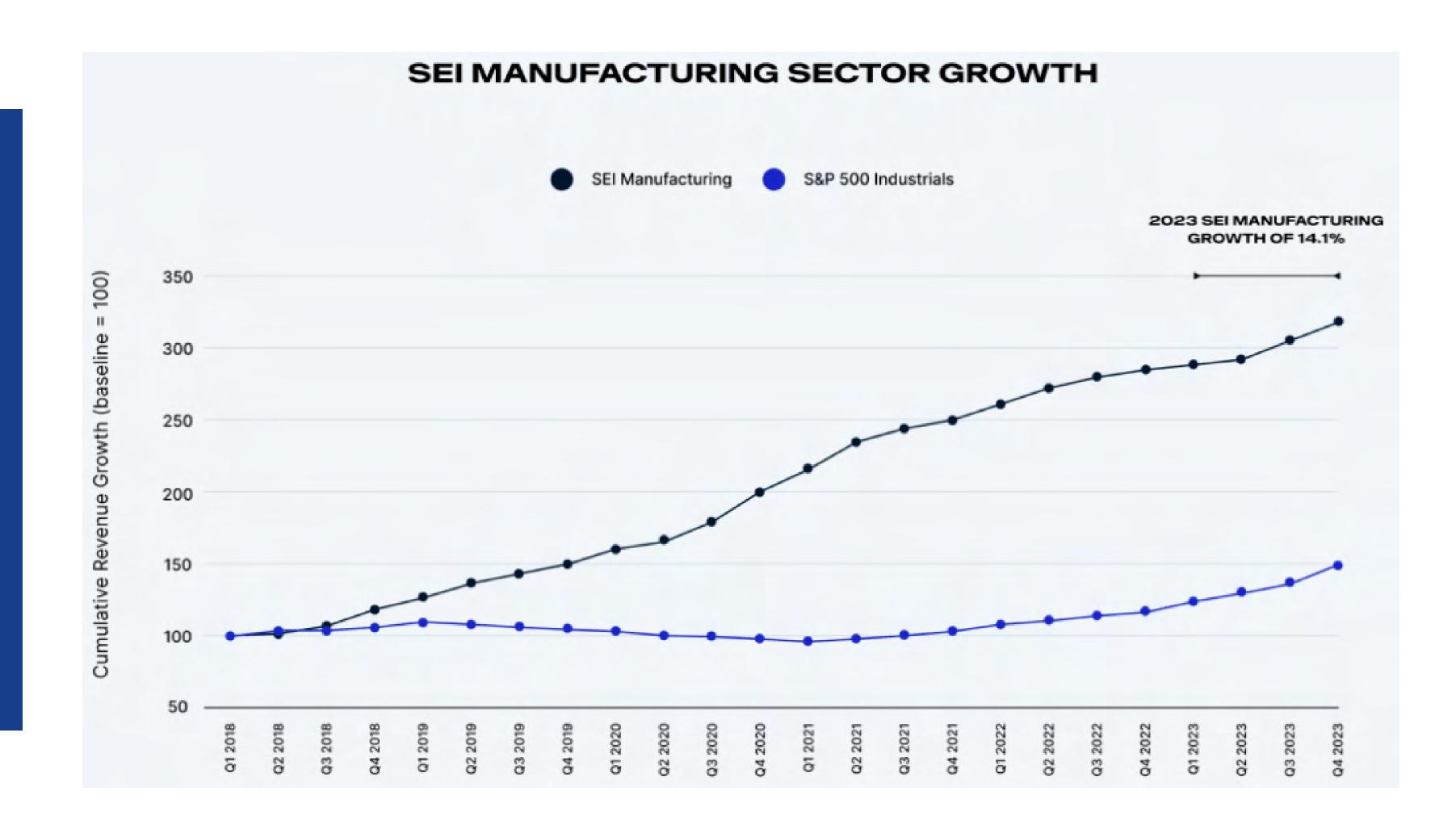
More numbers about subscription models in the manufacturing industries



Manufacturers offering subscriptions grow faster than traditional manufacturers.

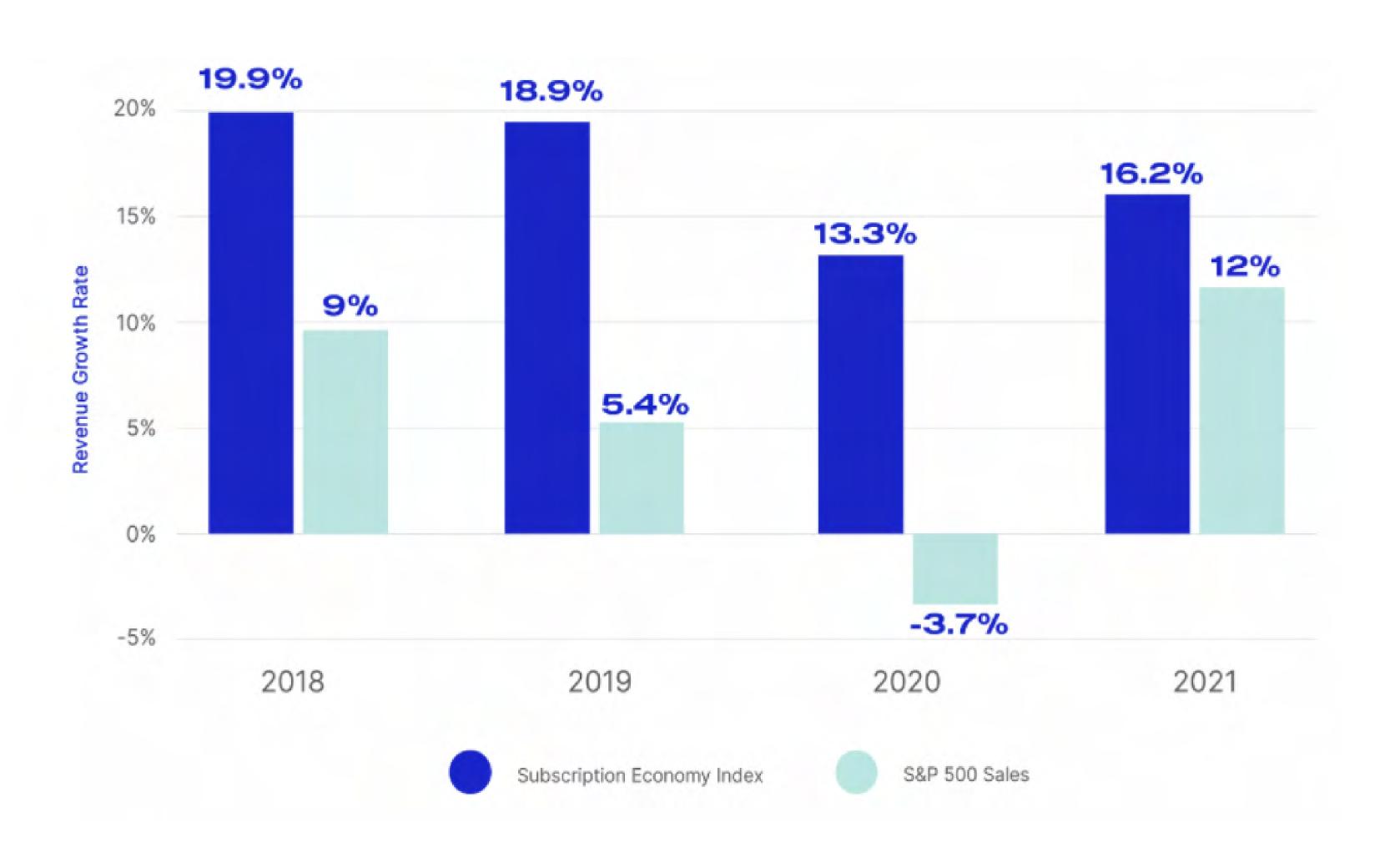
Revenue Growth: Manufacturing Industry

Subscription business models provide a new monetisation route through digital connectivity, usage of available data, and recurring services for an industry that is showing signs of growth stagnation, while facing rising input costs and declining margins.





Subscription companies are about resilience and stability; S&P 500 companies are about fluctuation and reaction.

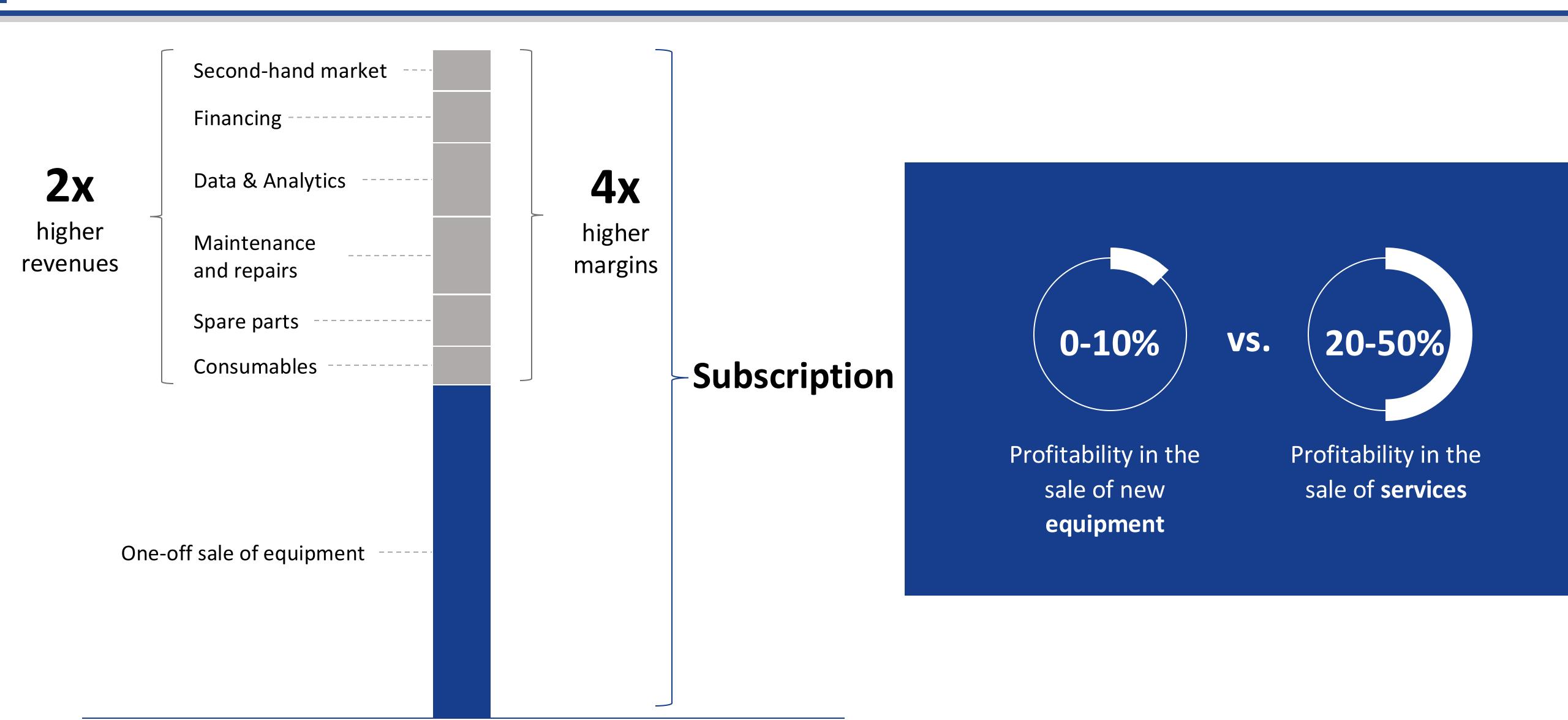


Revenue Growth

Traditional companies severely suffered from the pandemic, whereas growth for subscription companies slightly declined but kept a double-digit pace.



Subscriptions enable manufacturers to monetise the complete lifecycle of products.





What benefits do subscription models provide?



Win-win: Subscriptions offer benefits for manufactures, customers, and our planet.

Manufacturers:	Customers:	Planet:
Stable recurring revenue streams.	Reduced investment hurdles and shift from CapEx to OpEx.	Incentive to prolong lifetime of equipment.
Collect data along product lifecycle & monetise complete product lifecycle.	Cost and expenditure predictability.	Incentive to design easily repairable equipment.
Enhanced customer relationships and loyalty.	Outsourced operational risk of equipment.	Access to second-hand market of equipment.
Focus on customer lifetime value & align with customer's success metric.	Increased flexibility and productivity.	Incentive to implement end- of-life strategies (Reduce- Reuse-Recycle).
•••		• • •



What transformation does a switch to a subscription model entail?



Key questions you will ask yourself during the subscription innovation journey.

Value Proposition & Pricing

- For which products? For which type of customers?
- Which packaging makes sense? One-size-fits-all? Good-better-best? Objective-specific plans? À la carte? Which features are core/optional?
- How to price? Time/usage/output-based? How to design for up- and cross-sales to increase customer lifetime value?

Digitalisation & Data

- Is current equipment digitalised?
- Which parameters should be collected?
- Who are the right partners to team up with?
- What to do with the collected data?

Billing & Payments

- How does my current IT system need to be adapted?
- How to automate usage-based revenue collection and billing?
- How to allow customers to adapt their subscriptions over time?
- What are the most important KPIs to track?

Financing & Accounting

- What are the implications on cash-flow & balance sheet?
- Which type of financing structure to set up? Subscriptionor usage-based financing?
- Who are the right partners to team up with?

Legal

- What clauses are specific to a subscription/as-a-Service models and need to figure in the contract?
- Who's responsible if something happens?
- How long should the contract duration be? What about follow-up contracts?

Sales & Company Culture

- How do you sell subscription models?
- How to adapt the incentives scheme?
- How to adapt the company culture towards a recurring service-mindset?





How to get started with your subscription business model transformation?



Subscription Action Plan™: A structured framework to organise your 9-18 months-long subscription business model transformation. Workshops on all key challenges you will face.



1. Conceptualise Subscription Model

- 1.1. Intro brainstorming, conceptualisation & scope
- 1.2. Project planning & market research
- 1.3. Target equipment & target customers
- 1.4. Customers' challenges & needs
- 1.5. Customer interviews
- 1.6. Subscription models & value propositions
- 1.7. Test models with customers (customer interviews)
- 1.8. Assess and validate models



2. Build Subscription Offering

- 2.1. Connected services (via IoT) & Equipment mgmt. system
- 2.2. IT-infrastructure
- 2.3. Subscription lifecycle Customer lifecycle
- 2.4. Subscription plans
- 2.5. Subscription pricing for customers
- 2.6. Financing structure
- 2.7. Contracts & General terms and conditions & risk mgmt.



3. Subscription Go-To-Market Strategy

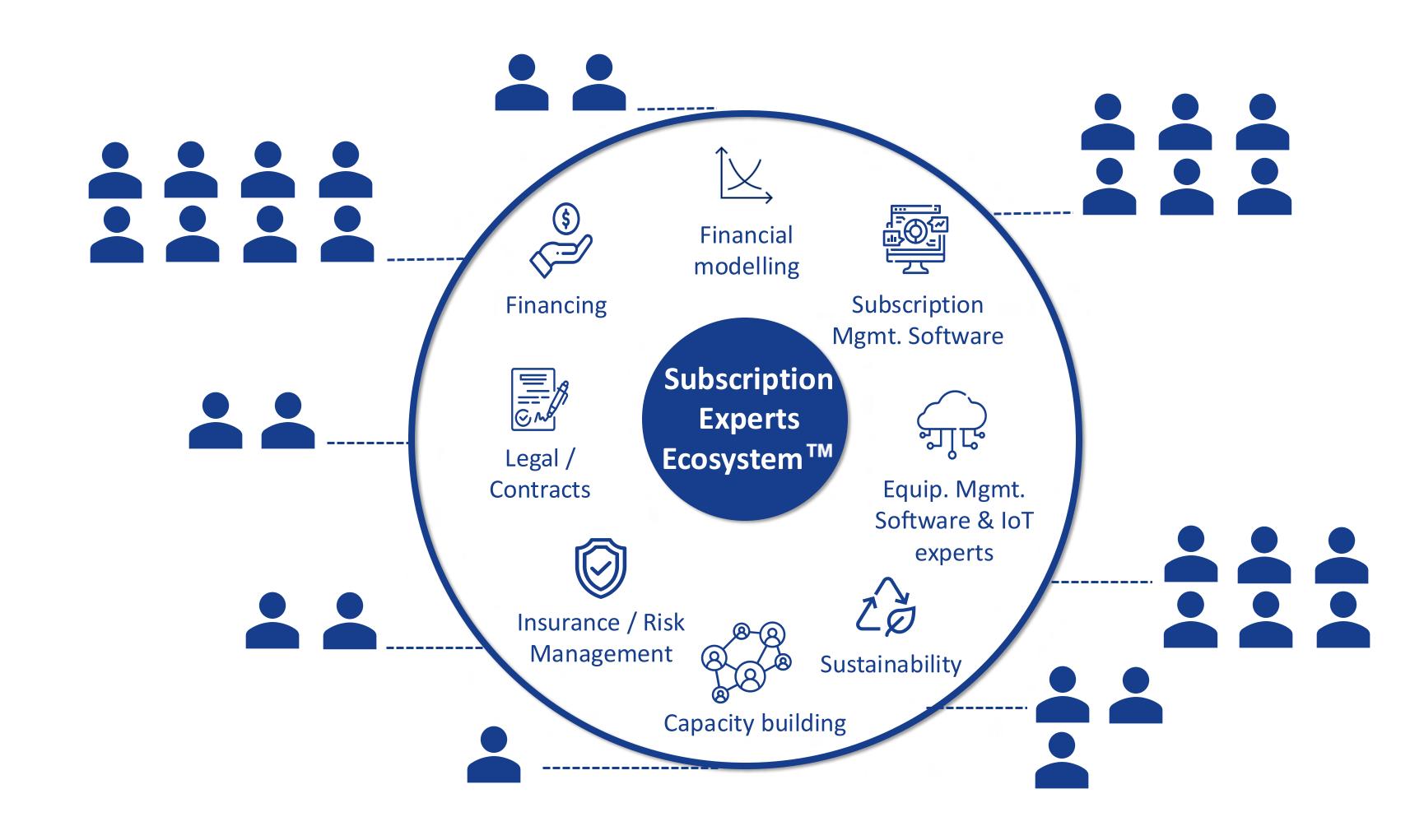
- 3.1. Land & Adopt Sales and marketing processes
- 3.2. Expand & Renew Crossand up-sells & Follow-up plans
- 3.3. Adapting roles & Review sales compensation schemes
- 3.4. Sales playbook & support material (offers)
- 3.5. Subscription KPIs & FAQs
- 3.6. Training sales reps
- 3.7. Training customers on procuring subscription models
- 3.8. Sustainability implications

Launch
Subscription
Model!



Subscription Experts Ecosystem™: Access to a network of 20+ expert partners.

On very specific topics that might require additional expertise throughout your subscription business model transformation, we can connect you with the right partners.





Case study



We helped Detandt-Simon develop a Ventilation-as-a-Service business model, where they guarantee a certain air quality to their customers.

10 Month project duration

+150% Revenue



Problem

Previously, Detandt-Simon (distributor) sold to installers that sold to end-customers. Detandt-Simon had no clue how equipment was being used (**no monitoring**), nor was equipment consumption being optimised (**no optimisation**). Besides, **high upfront investments** repelled certain customers.

Solution: Ventilation-as-a-Service

The new strategy now involves **continuously guaranteeing a certain air quality**. Detandt-Simon now **sells directly to end-customers**, partnering up with existing installers. **No upfront investment** is required, instead a subscription is provided including **connected equipment** and **complementary services** such as maintenance, monitoring, optimisation, etc. Customers **only pay for performance** as equipment regulates and optimises consumption based on the air quality.

"With P2S' methodological approach, we managed to launch the project in 10 months. P2S helped us increase our average project revenue by 150%.

Tailored workshops, insights, best practices, and putting us in contact with the right partners all contributed to a very creative working atmosphere."

Wathek Ferchichi
Technical Director
Detandt-Simon SA



The question probably is not <u>if</u> your company should develop a recurring revenue model, but <u>when</u> and <u>how</u>.

Contact us:

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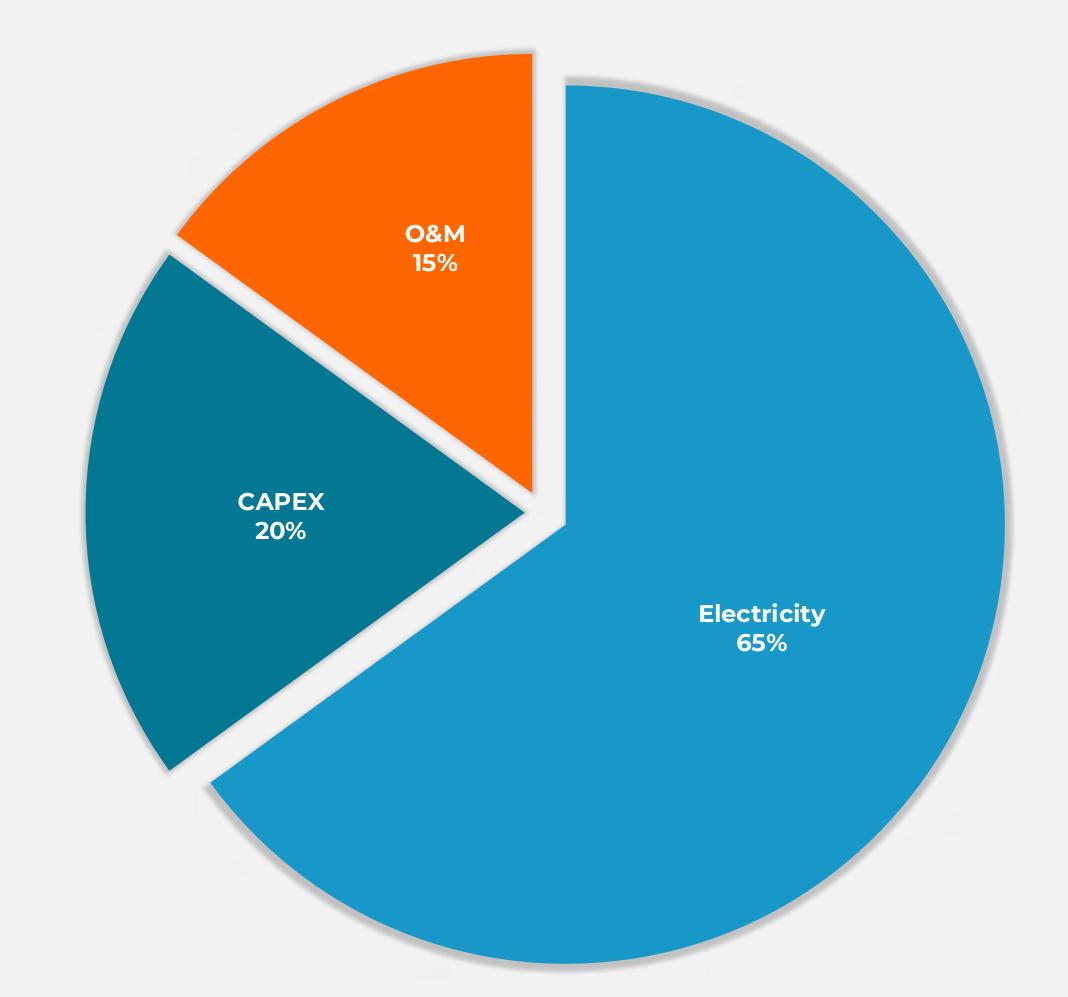
Cooling as a Service

Our journey to CaaS – Shifting risk





>65% of lifecycle cooling cost is electricity

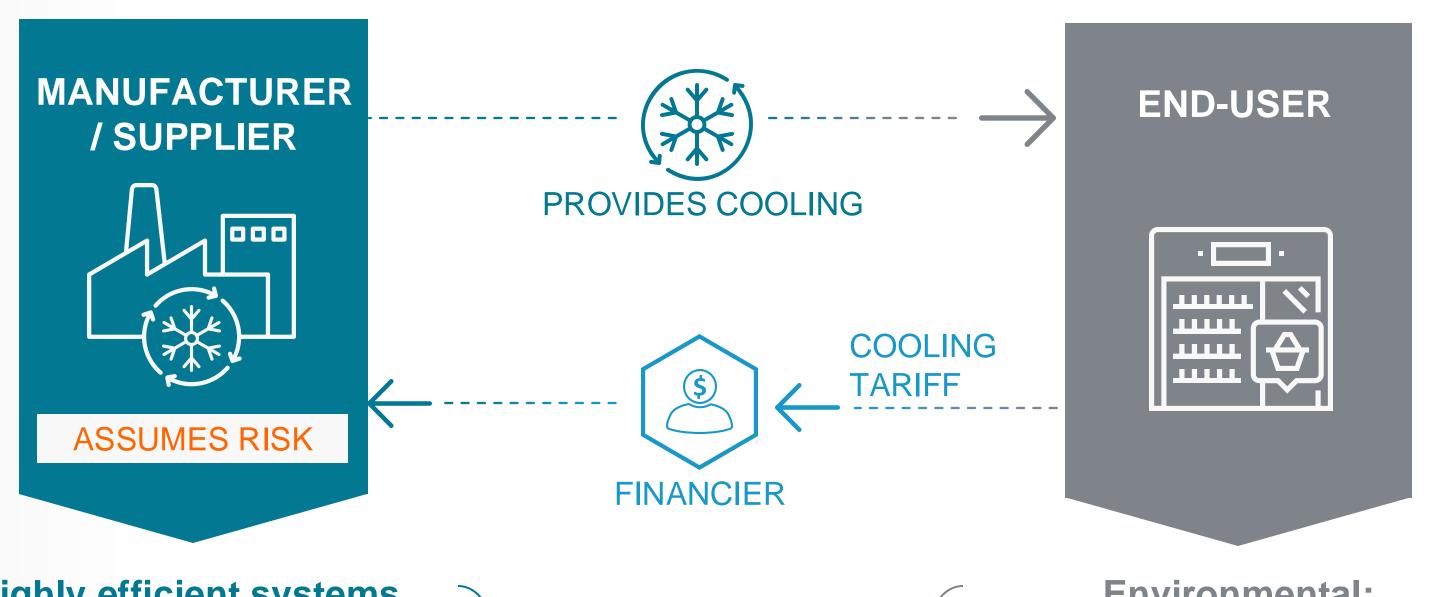


Electricity drives the cost of cooling, yet in practice only temperature is monitored.

This is a RISK that the client cannot control.



Why shift the risk?



Highly efficient systems

= less energy usage, lower operational costs, less maintenance, longer lifespan

= Higher profitability

Long-term contract

Recurring model

Business relationship secures future work

Uptime Efficiency





Environmental:

reduced emissions via natural refrigerants and improved energy efficiency

Increased operational focus and associated product quality

Reduced LCC of cooling and predictability

Zero capital outlay / investment in system / equipment



Innovation in technology & data management

From complexity to simplicity
Data must lead to...







Asset Management

Unlock performance and efficiency through intelligent, informed decisions







The financier perspective – Creating scale





Partnership between supplier and financier is key to success

CaaS is an attractive investment vehicle:



The risk is low because the operator is also the subject matter expert, giving stable and predictable returns



The energy sector is growing, especially sustainable energy



CaaS technology can be state-of-the-art based on natural refrigerants



This model assists in important aspects such as food security.



The environmental imperative

Refrigeration is a leading contributor to environmental degradation





CaaS sustainability impact



Excessive energy use through system degradation is prevented – responsibility with consequences



Profitability is directly impacted by poor system design



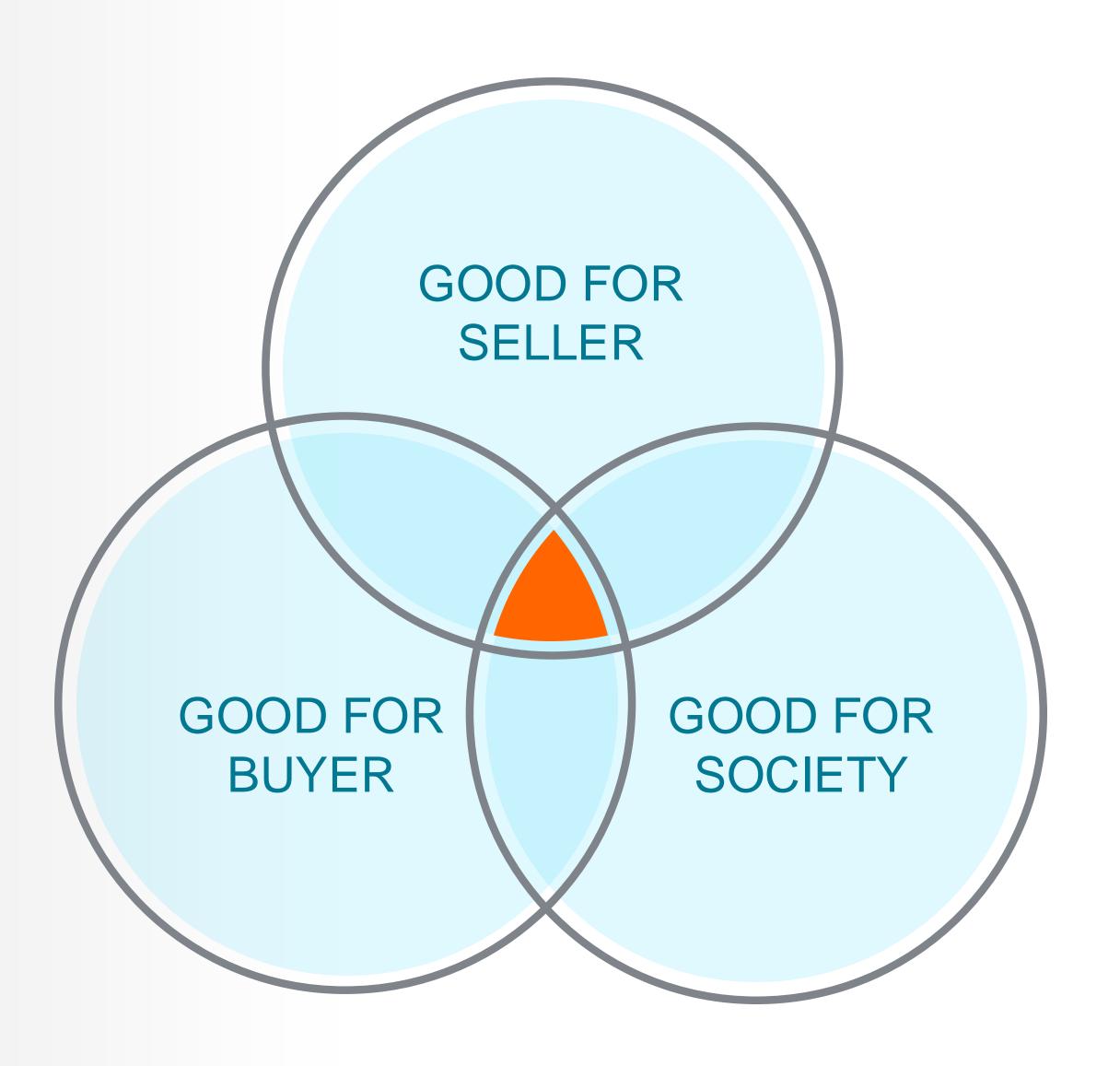
Natural refrigerants are a natural outcome of CaaS



With its high-quality data, CaaS plays an important role in ESG reporting.



The win-win-of Win-win of CaaS



SANPO-YOSHI

In Japanese, *Sanpo-Yoshi* means 'Three-Way Satisfaction'.

Business transactions provide benefits to all stakeholders – the buyer, the seller and society at large.



CASE STUDY Clover SA

The world's first fully servitised refrigeration, steam and power plant





10MW

two-stage ammonia cooling plant

1,180m2
boiler house

1.6MW solar power system





The journey:

We saw the impact of CaaS on technological advancement, operational efficiency, financial stability and environmental stewardship.
A ripple effect of positive outcomes

THANKYOU









Circular Lighting as a Service



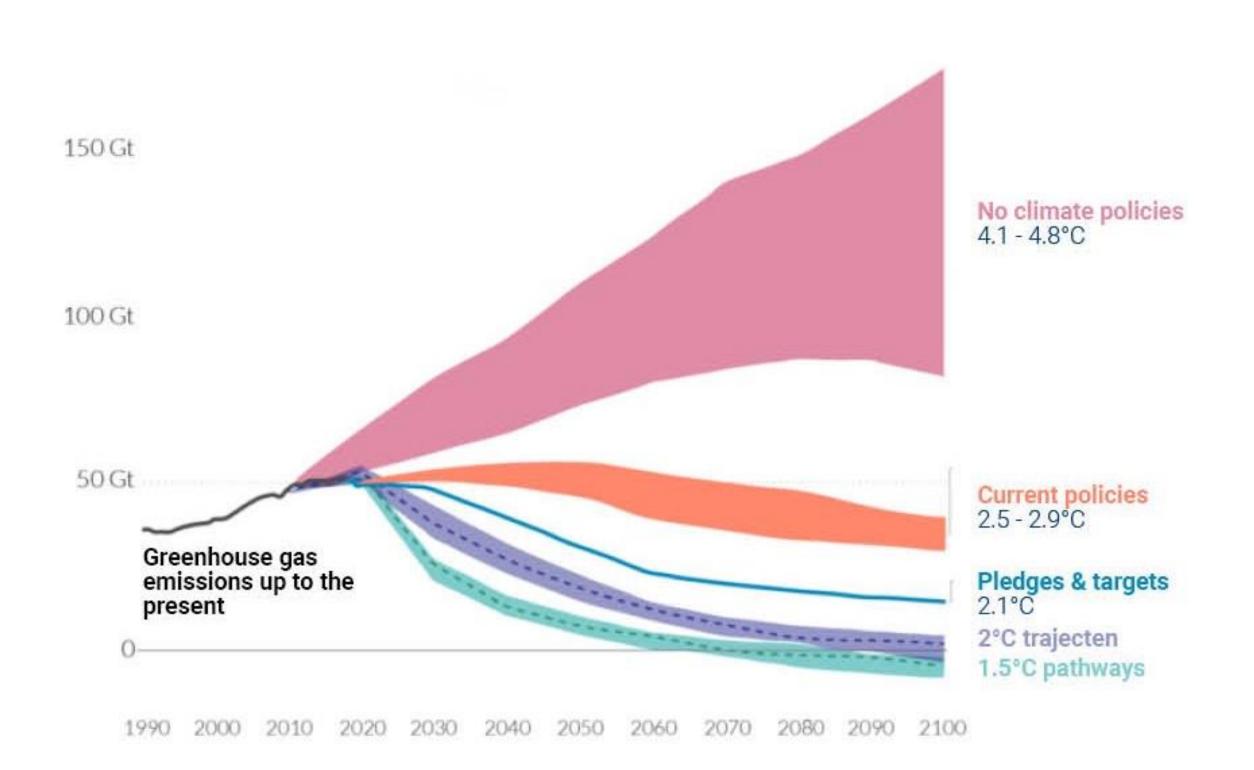
What is C-LaaS and the value It delivers to clients

Facing 2 mega-challenges



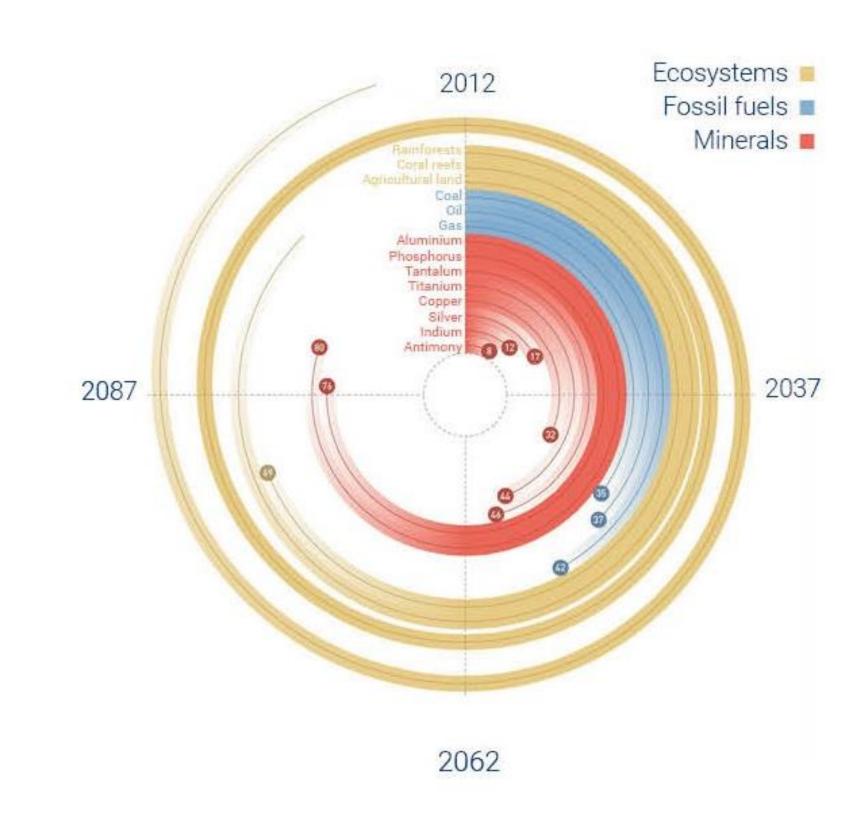
Global Climate change

Update april 2022



Depletion of natural resources

Estimated remaining world supplies of non-renewable resources



Our Brand Promise





Tomorrow's light:

Innovative lighting, delighting our customers.

Tomorrow's light:

Lighting with a 'light' footprint, so that our lighting will not weigh on the future of the planet.





C-LaaS: a strong enabler of a circular economy



LIGHTING DESIGN

FINANCING

INSTALLATION COMMISSIONING MAINTENANCE CURATIVE/PREVENTIVE

RENOVATION



For a fixed periodic amount we guarantee a pre-defined lighting performance and energy consumption optimised for circularity.

Offering owners an EFFORTLESS, WASTELESS and ENDLESS experience.

C-LaaS: an example



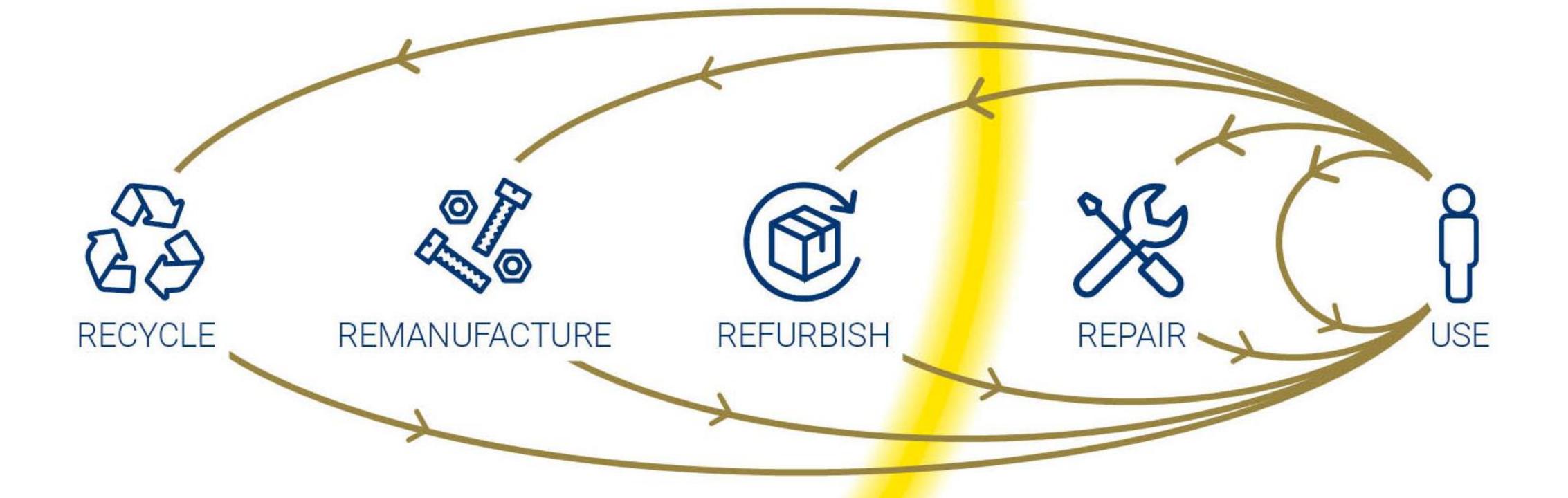


C-LaaS Project
Sint-Paulus College
Waregem (Belgium)

20% less luminaires 80% refurbished luminaires 70% energy savings 20 years performance contract

Putting our brand promise in action





WASTELESS

EFFORTLESS

ENDLESS

Design for project lifecycle



LIGHTING DESIGN

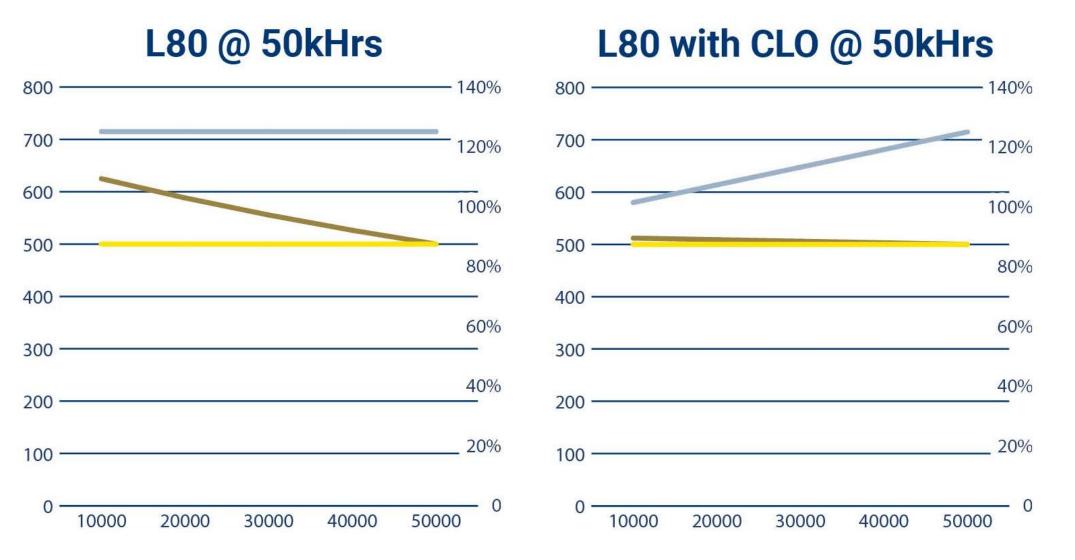
FINANCING

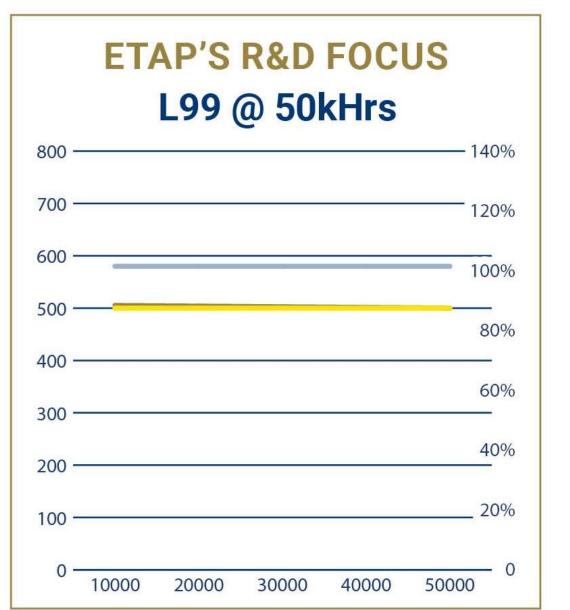
INSTALLATION COMMISSIONING

MAINTENANCE CURATIVE/PREVENTIVE

RENOVATION

- Required lux levels
- Actual lux levels
- Power consumption





Prolong useful lifetime

A circular product design reduces waste from the start

Tomorrow's light is **ENDLESS**

Design for project lifecycle



LIGHTING DESIGN

FINANCING

INSTALLATION COMMISSIONING

MAINTENANCE CURATIVE/PREVENTIVE

RENOVATION



Our **U3 OFI** range: (Optimized For Interdistances)

Office 28.8 x 14.4 m 32 pcs of U3352/LEDN770S

-55% LUMINAIRES

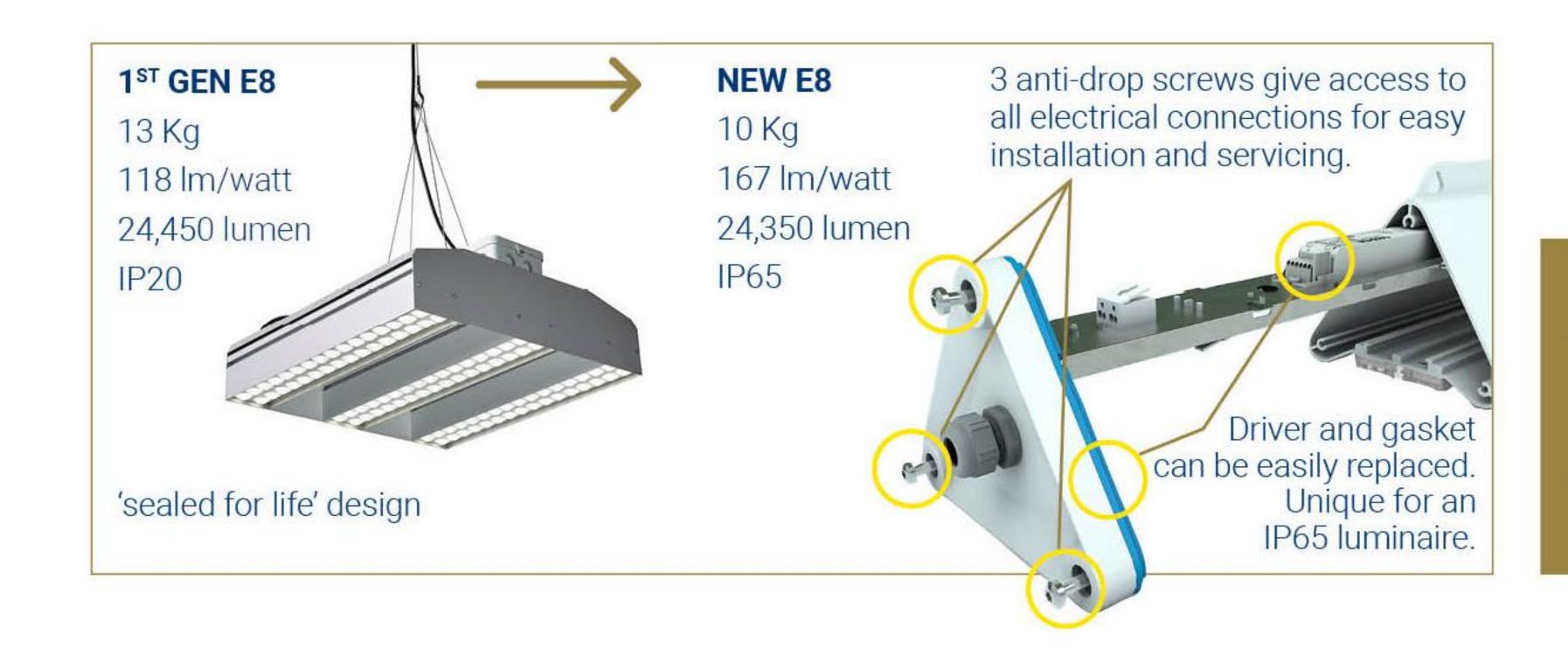
544 lux 0.74 W/m²/100 lx Solution optimized for Interdistances

A circular product design reduces waste from the start

Tomorrow's light is WASTELESS

Design for project lifecycle





Luminaires are easily accessible

A circular product designed for easy maintenance

Tomorrow's light is **EFFORTLESS**

Minimal invasive renovation solution: refurbishment



LIGHTING DESIGN

FINANCING

INSTALLATION COMMISSIONING

MAINTENANCE CURATIVE/PREVENTIVE

RENOVATION





Luminaire refurbishment

For lighting and
emergency lighting

Tomorrow's light is ENDLESS

Minimal invasive renovation solution: refurbishment



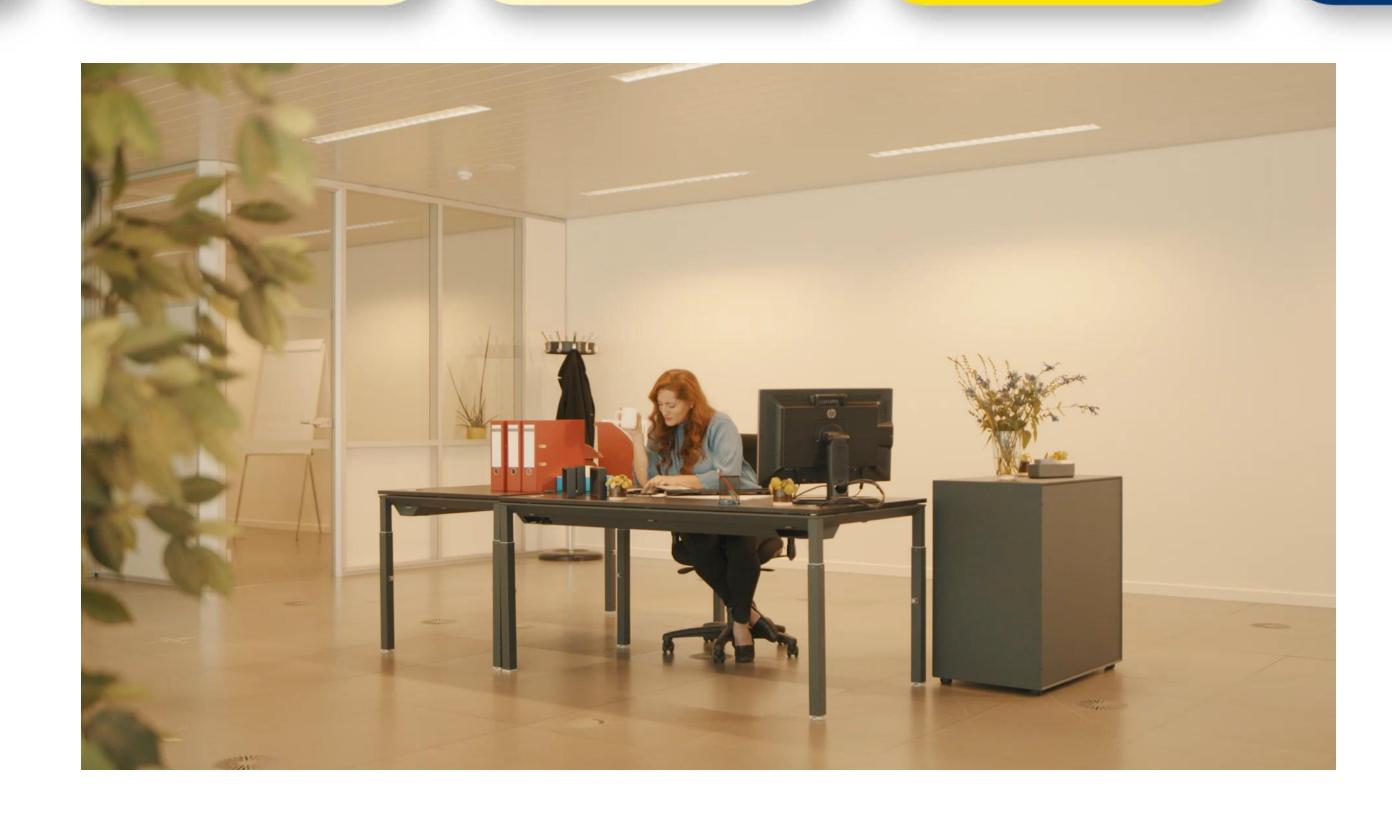
LIGHTING DESIGN

FINANCING

INSTALLATION COMMISSIONING

MAINTENANCE CURATIVE/PREVENTIVE

RENOVATION



Circular Light as a Service





For a fixed periodic amount we guarantee a pre-defined lighting performance and energy consumption optimised for circularity.

Offering owners an EFFORTLESS, WASTELESS and ENDLESS experience.

LIGHTING DESIGN

FINANCING

INSTALLATION COMMISSIONING MAINTENANCE CURATIVE/PREVENTIVE

RENOVATION

- Quick Budget scan of building
- Assessment of refurbishment options
- Optimizing the lighting design
- Agreement on performance parameters
- Agreement on renovation business case

- Customer opts for
 self-financing or
 financing by ETAP
- ETAP supervises installation partners and secures proper commissioning of general and emergency lighting systems
- ETAP ensures
 compliance to agreed
 performance criteria
 over 20 yrs
- eta ETAP ensures normcompliant emergency •
 lighting over 20 yrs
- Contract extension with maintenance contracts
- Refurbishment to upgrade existing installation
- Transfer of ownership
- Return to ETAP for re-use or recycling in accordance with Weeelabex standard

Circular Light as a Service: what's in it for the customer?





Improved transparency and optimized TCO

Reduced risks of operation

Save own financing for core business investments

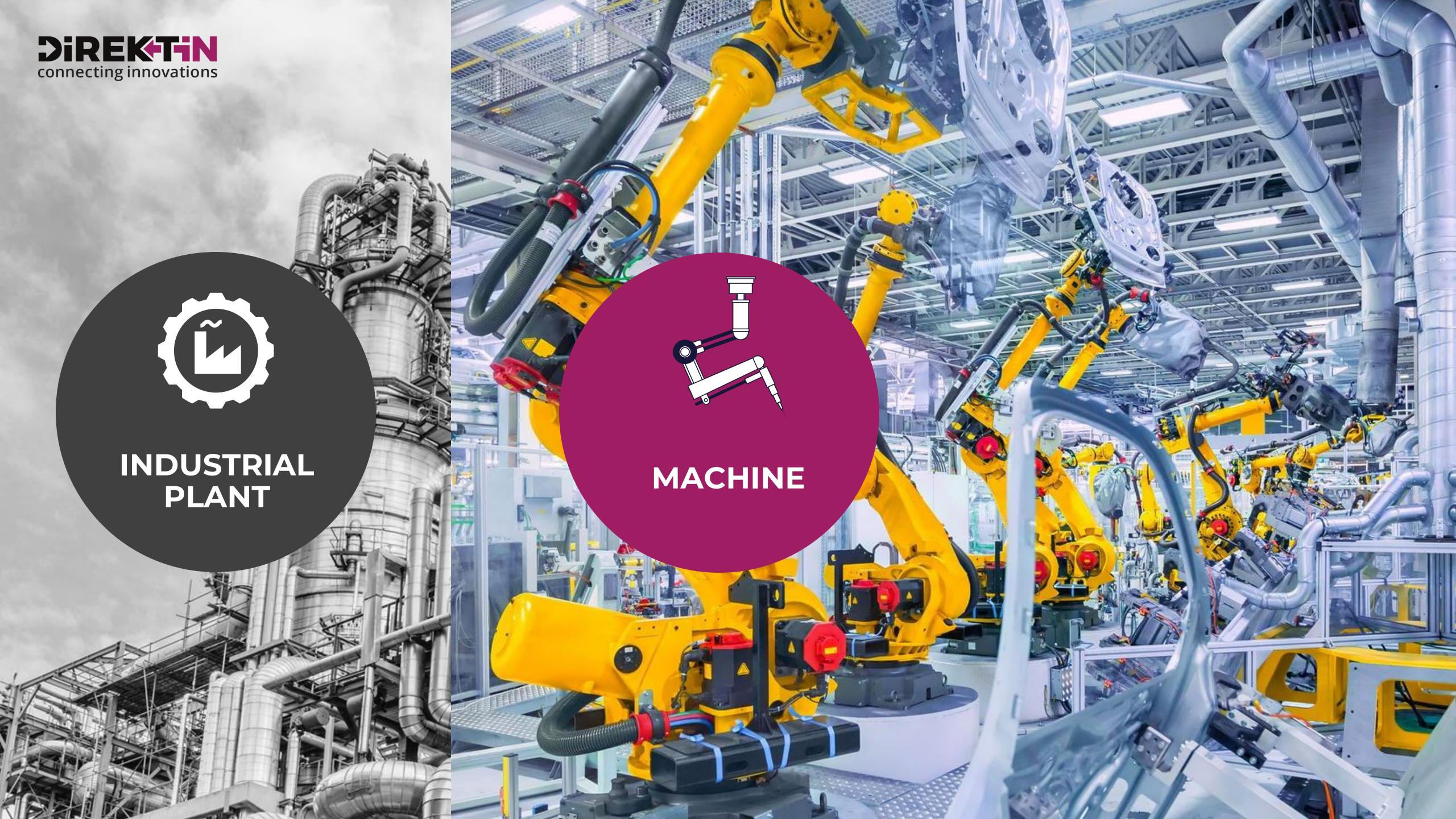


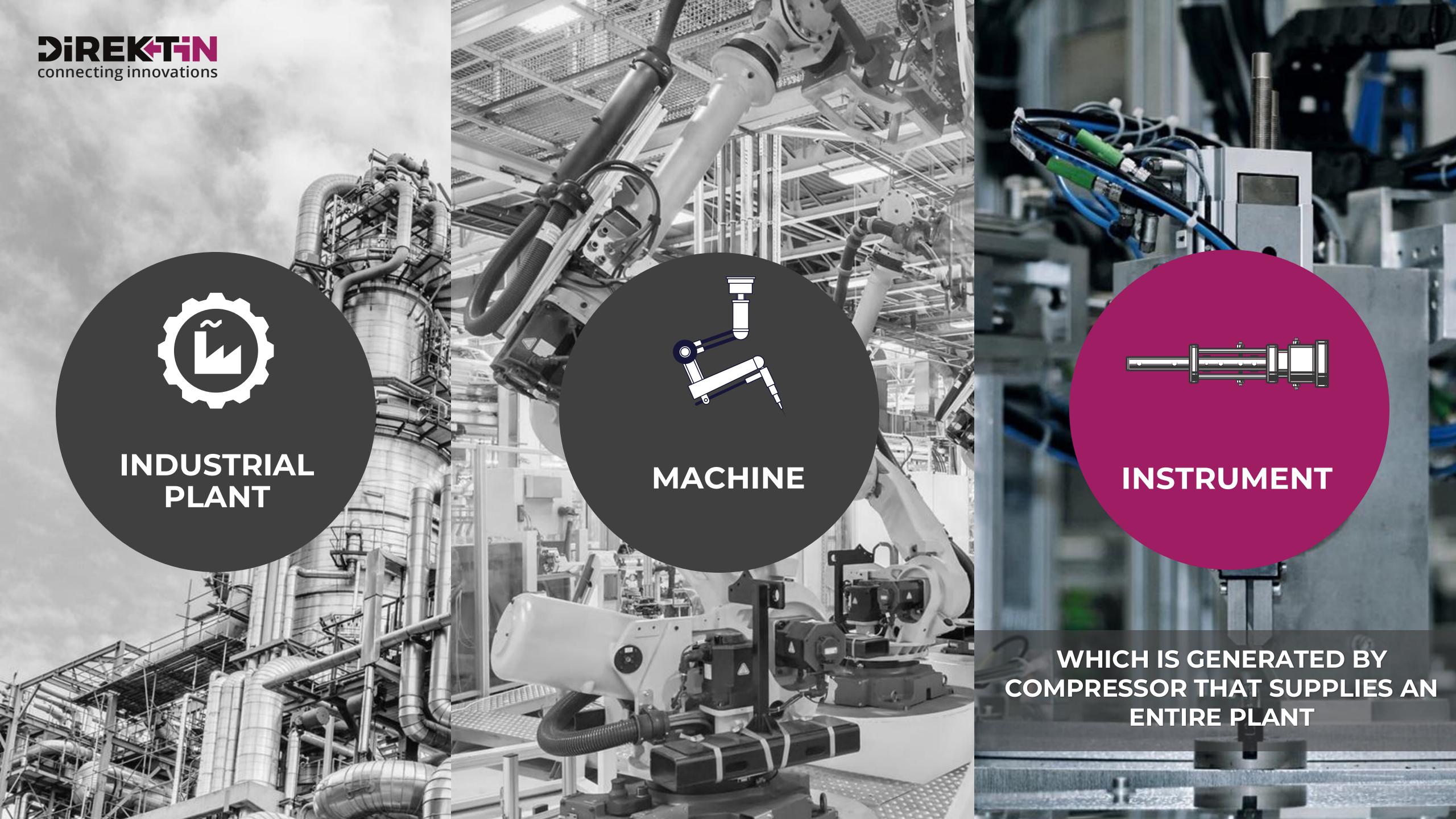


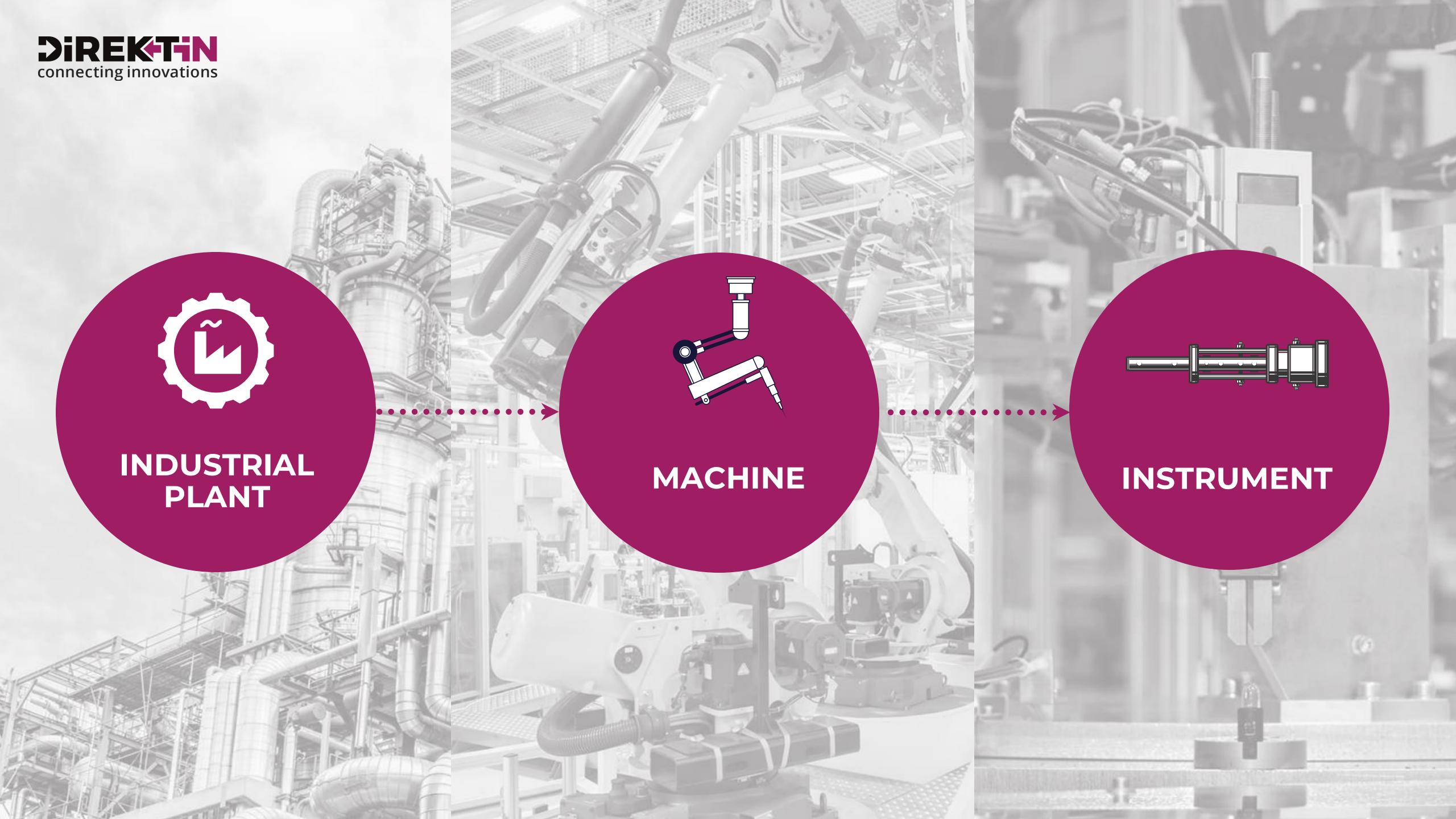
Enhancing Efficiency Operation optimisation











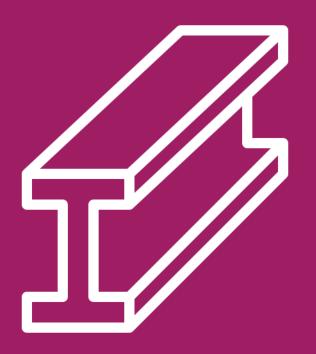








COMPRESSED
AIR USAGE



PHARMA

STEEL

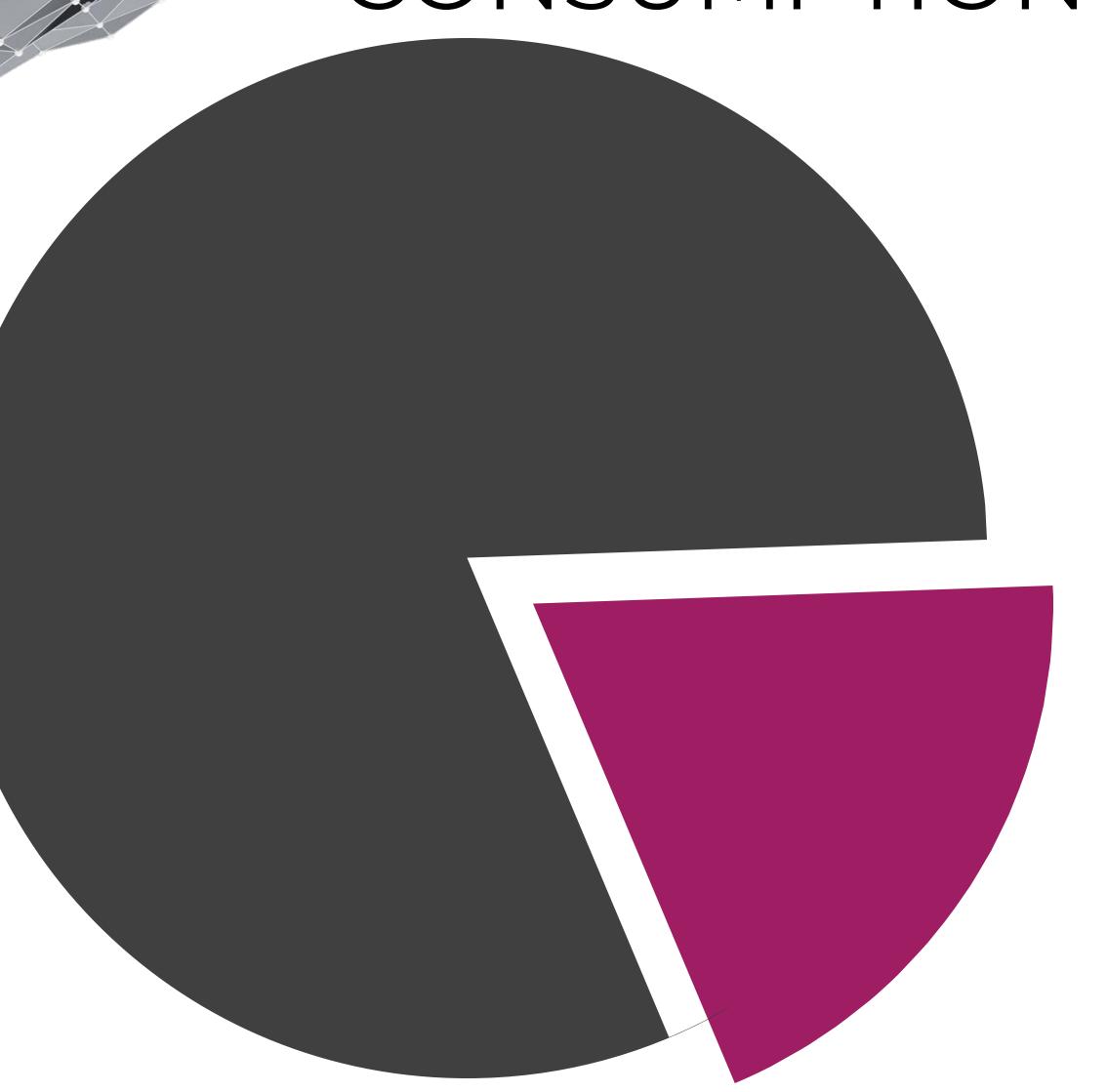




FOOD



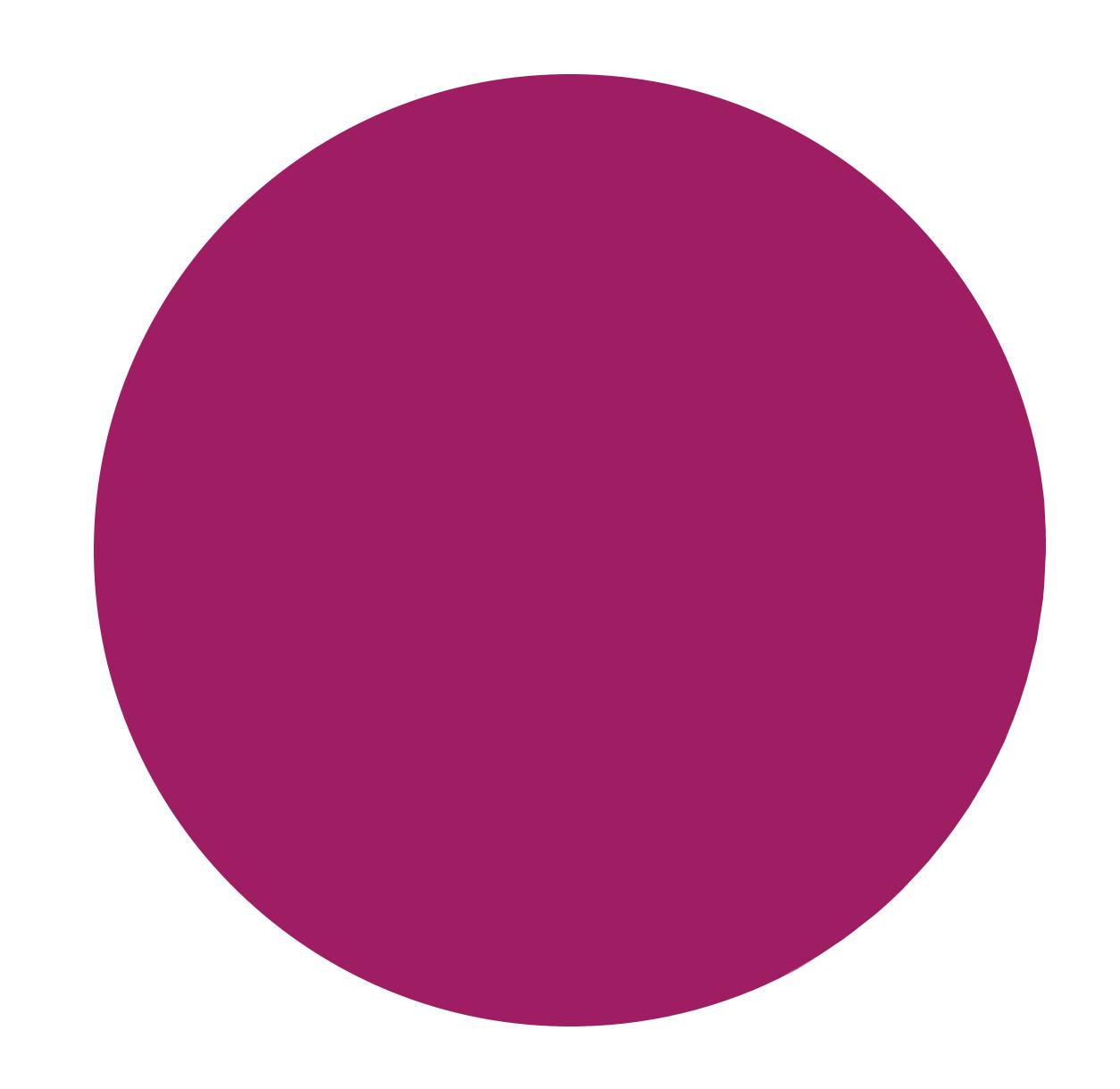




20% COMPRESSED AIR CONSUMPTION

20% COMPRESSED AIR CONSUMPTION

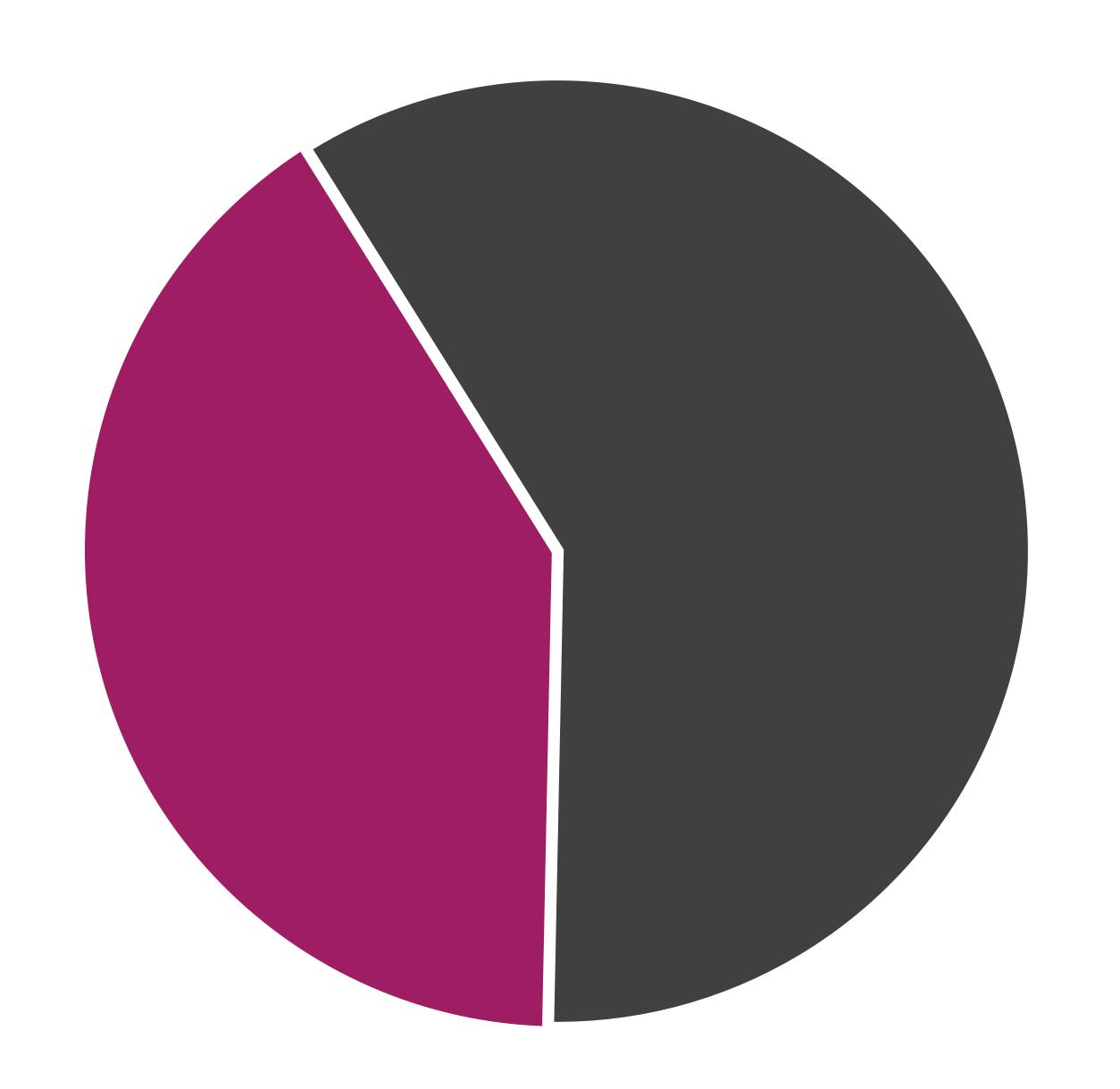




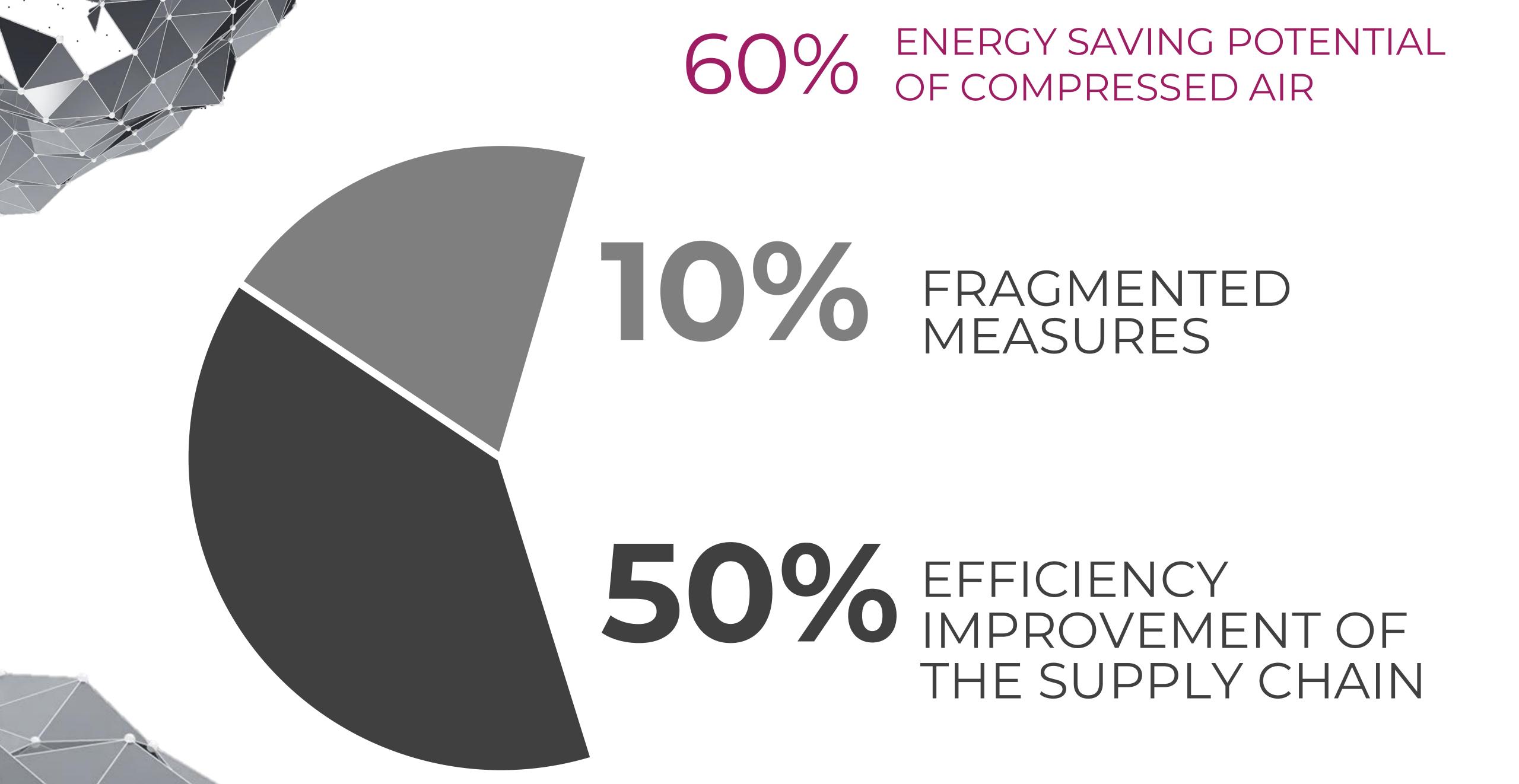


20% COMPRESSED AIR CONSUMPTION

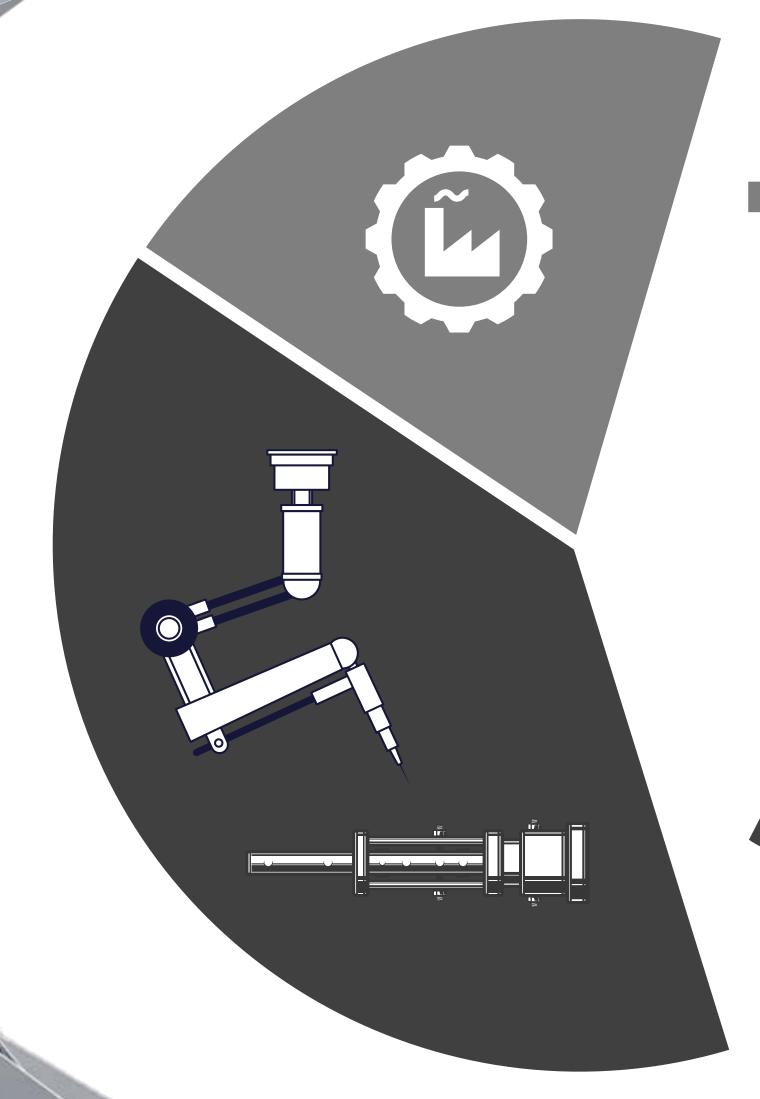




ENERGY SAVING
POTENTIAL OF
COMPRESSED AIR



60% ENERGY SAVING POIL OF COMPRESSED AIR ENERGY SAVING POTENTIAL



10% FRAGMENTED MEASURES

50% EFFICIENCY IMPROVEMENT OF THE SUPPLY CHAIN



EFFICIENT APPLAINCES



EFFICIENTY
SYSTEM DESIGN



ENERGY-SAVING
HABITS AND
AUDITS

SIMILAR TO HOUSEHOLD





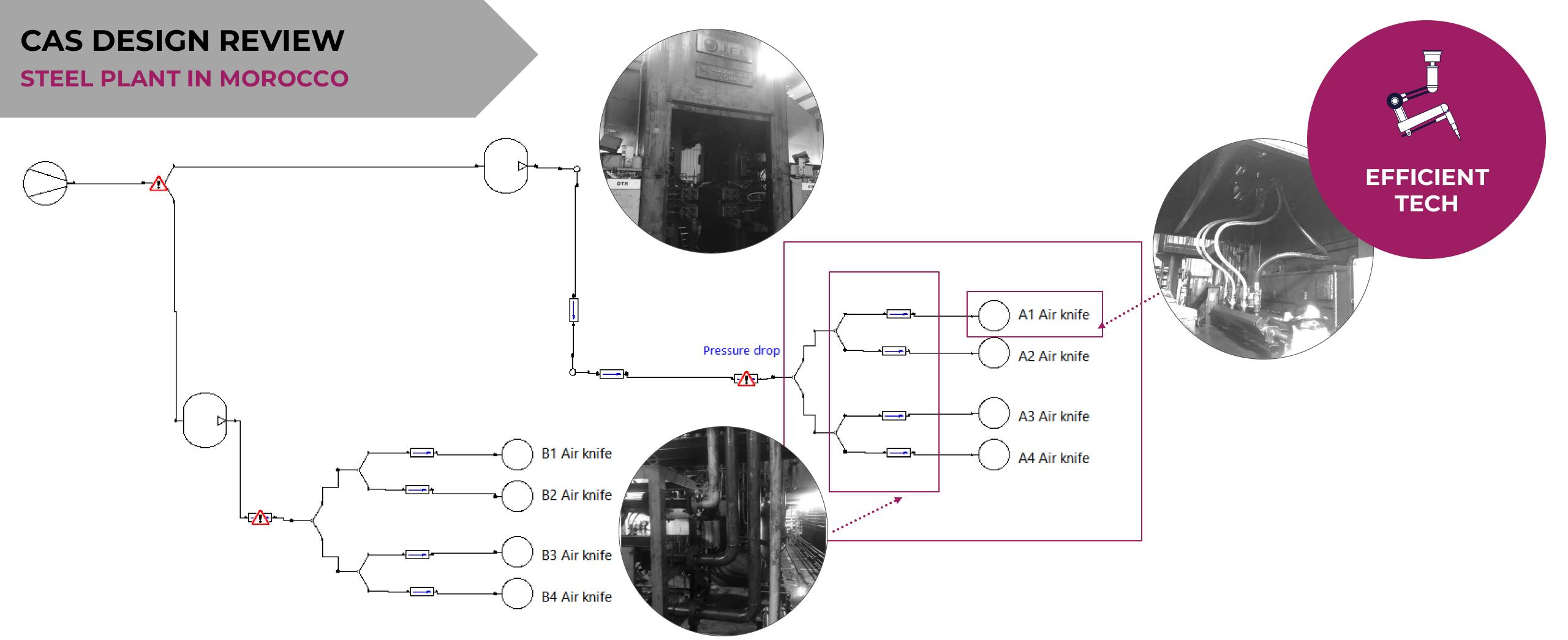
EFFICIENT DESIGN



EFFICIENT TECH



ENERGY-SAVING
HABITS AND
AUDITS



PROJECT GOAL

INSTALL NEW EFFICIENT EQUIPEMENT

AIR COST

EXISTING SYSTEM: **6.8 MIO MAD per year**

WITH NEW EQUIPEMENT:

9 MIO MAD per year

WHILE THE PROCESS IS

IMPROVED:

ENERGY COST IS 25%

HIGHER

CONCLUSION



COMPRESSED AIR SYSTEM IS NOT DESIGNED TO OPERATE WITH NEW EQUIPMENT!



AUDITS RESULTS AFTER 5 YEARS

ENERGY EFFICIENCY LEVEL OF 13 FACTORIES









LINEAR SUPPLY CHAIN



















MULTIPLE PROS OF COMMITTING TO ENERGY-EFFICIENT INVESTMENTS



- Increased profitability
- Potential for long-term partnerships

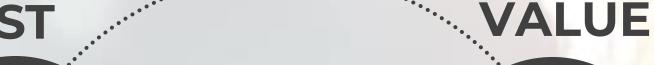


- Enhanced customer relationships
- Sustainability support



policy compliance





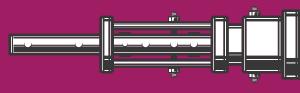
AUDITORS AND

ENGINEERING



RISK

•Industrial and



EQUIPMENT SUPPLIERS



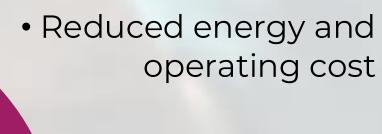
- Expanded opportunities
- Competitive advantage in the market



- Enhanced reputation for innovation
- Attraction of environmentally conscious customers

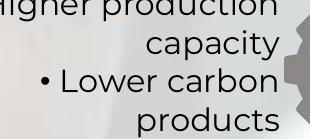


 Industrial and policy compliance





Higher production





- Higher-quality work environment
- Improved product quality and consistency









MULTIPLE PROS OF COMMITTING TO ENERGY-EFFICIENT INVESTMENTS



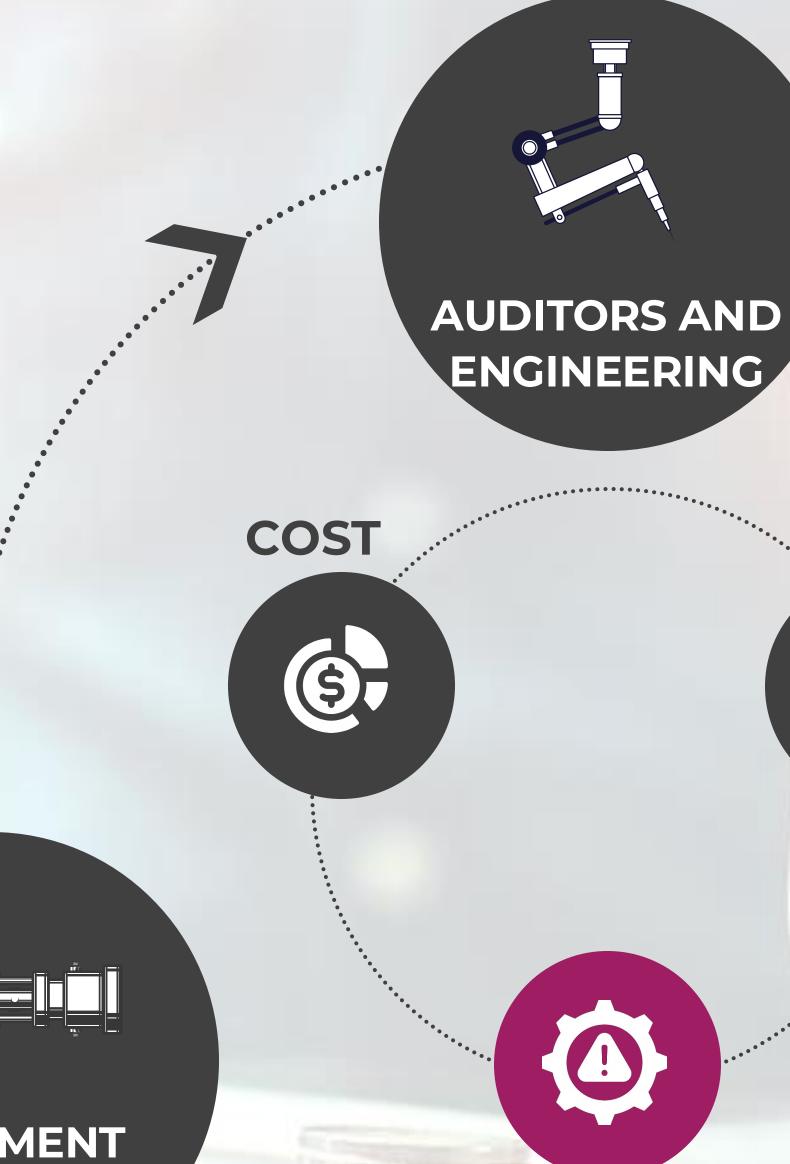
- Increased profitability
- Potential for long-term partnerships



- Enhanced customer relationships
- Sustainability support



 Industrial and policy compliance





- Expanded market opportunities
- Competitive advantage in the market



- Enhanced reputation for innovation
- Attraction of environmentally conscious customers



 Industrial and policy compliance



VALUE

 Reduced energy and operating cost





 Higher production capacity

 Lower carbon products





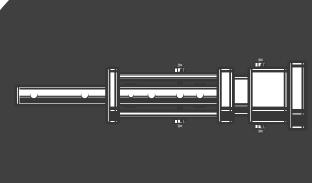
PLANT



Higher-quality work environment

Improved product quality and consistency



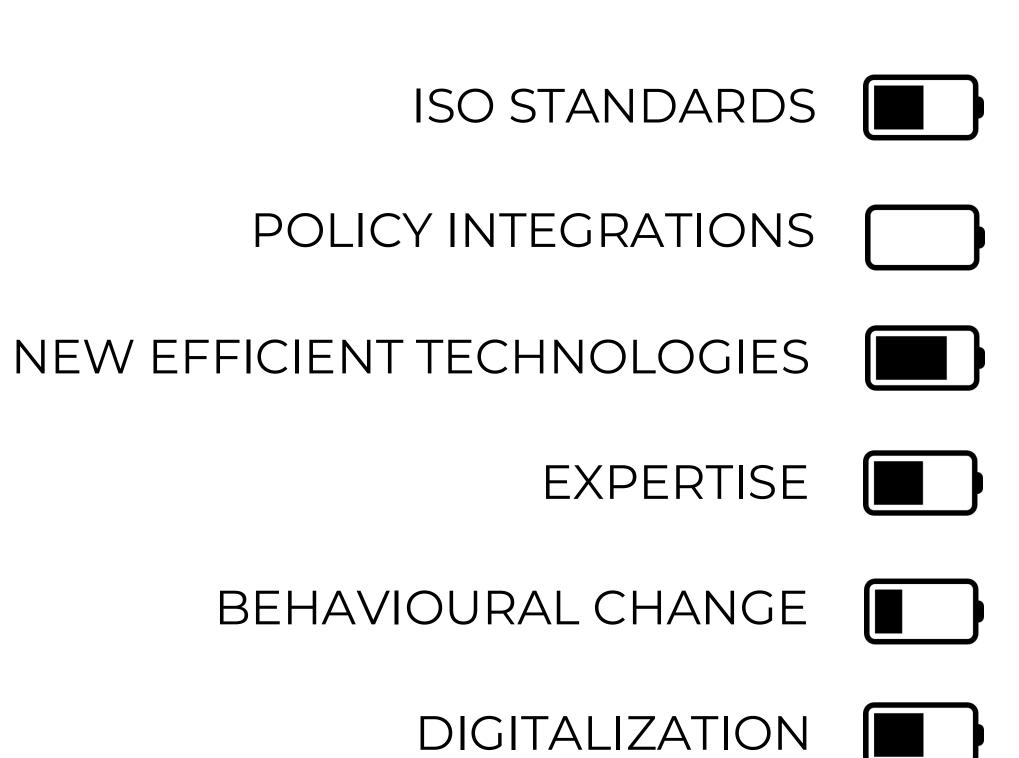


EQUIPMENT SUPPLIERS



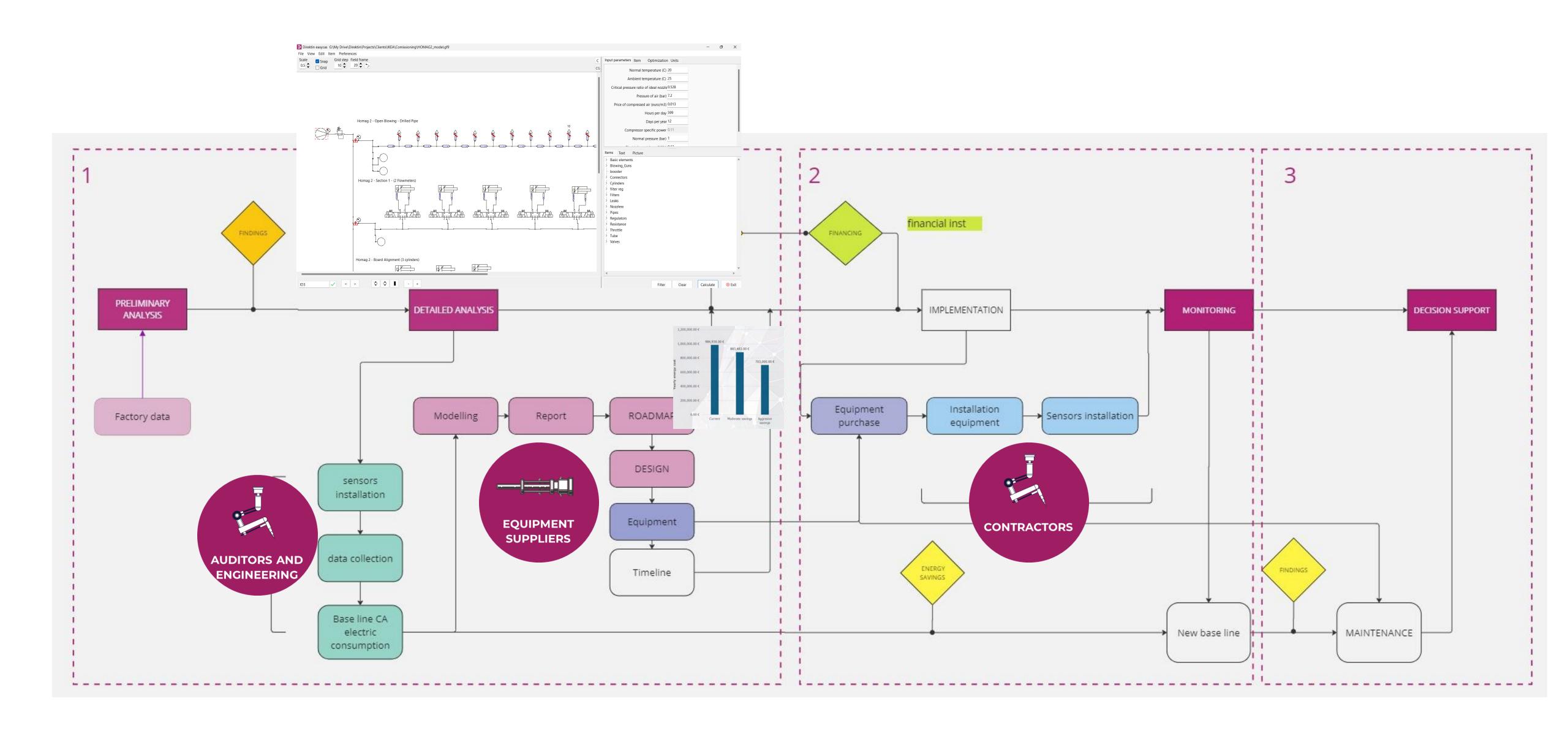
uncertainty Implementation Energy efficiency

Challenges to implement efficient solutions



EFFICIENCY AS A SERVICE ROADMAP





CAEaaS Design and optimization software **30% ENERGY** Monitor **SAVINGS AND** Suppliers database **SOFTWARE APPLICATION CARBON** Predictive maintenance REDUCTION Virtual Adaption Interface (VAI) Software Solution **PORTAL** Industry Training Regulations & Standards Connection with experts Largest Network / Database: • End-customers: Stakeholders & participants. **ECOSYSTEM** • Service Providers: Engineers, Builders, & Service Providers. • Product Providers: Compressor; Component, Software, & Sensor

Some of Our Customers













SIDPEC CASE STUDY

PETROCHEMICAL PLANT ALEXANDRIA EGYPT

PROJECT PROCESS

ON-SITE AUDIT-MODELLING-ROADMAP-IMPLEMENTATION BY A PLANT

PROJECT OUTCOME

- REDUCED OPERATIONAL RISKS
- REDUCED ENERGY COST
- REDUCED MAINTENANCE COST





1200 t CO2/YEAR REDUCTION

USE CASE IKEA

WOODWORKING MANUFACTURER

PROJECT PROCESS

ON-SITE AUDIT-MODELLING-ROADMAP-IMPLEMENTATION BY A PLANT

PROJECT OUTCOME

- REDUCED ENERGY COST: 200 000 euro
- REDUCED MAINTENANCE COST
- REDUCED PRODUCT RISKS



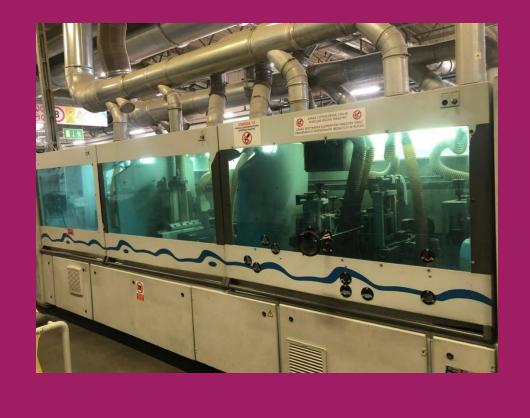
27%
ENERGY
SAVINGS/YEAR



947 t CO2/YEAR REDUCTION

DIREKTIN connecting innovations





MAKE ENERGY-EFFICIENCY PROFITABLE

Dr. Elvira Rakova FOUNDER, CTO

elvira.rakova@direktin.com



Backup CaaS growth

CaaS like other XaaS product will experience good growth in the future because the drivers are relevant to current concerns about risk



Lack and cost of technical skills is increasing everywhere. This is a risk to end-users



Environmental pressure to use less energy and natural refrigerants for cooling is building



CaaS will provide better profitability and focus for both suppliers and endusers



Partnerships between equipment suppliers, financiers and data management companies are increasing



The manufacturing industry shifts towards subscriptions.

57%

of companies want to use subscription models for machine procurement.

- VDMA, McKinsey & Company (2020)

\$131,2B

projected size of the global subscription market by 2025.

- Zuora (2020)

+84%

annual revenue growth of subscription models in the manufacturing industry.

- IoT Analytics (2021)



P2S' clients (B2B hardware companies), are increasingly interested in developing subscription business models.



